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1974

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1972
1973

Water Resources Data for Alabama

Water Years 1972-73

Part 2. Water Quality Records

MARCH 3, 1849

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-72/73-2

Prepared in cooperation with the Geological Survey of Alabama, the Alabama Highway Department, and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1973

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

1972-1973

Water Resources Data
for
Alabama
Water Years 1972-1973

Part 2. Water Quality Records

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Prepared in cooperation with the Geological Survey of Alabama,
the Alabama Highway Department, and with other State,
municipal, and Federal agencies

Prepared in cooperation with

Geological Survey of Alabama
Alabama Highway Department
Alabama Department of Conservation
City of Mobile
Corps of Engineers, U. S. Army
Tennessee Valley Authority

Water resources records, 1972-73, for Alabama are in the following reports of the U. S. Geological Survey:

1. Water Resources Data for Alabama
   Part 1: Surface Water Records

2. Water Resources Data for Alabama
   Part 2: Water Quality Records

Copies of this report may be obtained from
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1972-73

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16. Abstracts

Water resources data for the 1972 and 1973 water years for Alabama consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 79 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Alabama.

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(Letters after station name designate type of data:
(c) chemical; (t) water temperature)

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WATER RESOURCES DATA FOR ALABAMA, 1972-73

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1972-73 water years for Alabama include records of data for the chemical and physical characteristics of surface water. Data on the quality of surface water (chemical and temperature) were collected from designated sampling sites at predetermined intervals such as once monthly or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals. Records are given for 239 sampling stations of which 79 are continuous record stations, 4 are partial-record stations, and 156 are miscellaneous sites. Locations of surface water quality stations are shown in figure 1. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of W. L. Broadhurst, succeeded by W. J. Powell, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Alabama.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the Geological Survey of Alabama, and with other local, State, and Federal agencies.

Assistance in the form of funds was given by the Environmental Protection Agency in collecting records for 11 water-quality stations published in this report. Additional data were furnished by the Tennessee Valley Authority.

DEFINITION OF TERMS

Terms related to water quality and hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 14.

Acre-foot (AC-FT, ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate or delayed incubation membrane filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per litre (μg/l, UG/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram - equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 4. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

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* Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25° C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir. See also table for converting English units to International System of units (SI) on page 14.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are those of uranium in micrograms per litre, radium as radium-226 in picocuries per litre, gross beta radiation as strontium/yttrium-90 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre.

A picocurie (PC/L, pCi/l) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegration per minute.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 02361000 which appears just to left of the station name includes the 2-digit part number "02" plus the 6-digit downstream order number "361000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 3 (Ohio River basin) and Part 2 (South Atlantic slope and eastern Gulf of Mexico basins). All records for a drainage basin encompassing more than one state could be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

Downstream order station numbers are not assigned to sites where only random water-quality samples are taken. These sites are classified as water-quality miscellaneous sites and as a means of location and identification a 15-digit number consisting of the latitude and longitude coordinates to the nearest second for each site plus a 2-digit sequential number are assigned. For example, the station number for a water-quality miscellaneous site with lat 34°38'22", long 086°41'10" would be 343822086411001.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents. Discharge records for streams in Alabama have been released for 1972 and 1973 in the reports, "Water Resources Data for Alabama, Part 1, Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Specific conductance and temperature data obtained at approximately 5-week intervals at regular gaging stations given in Part 1 of this report are published in Part 2. Data for water years prior to 1972 have not been published and are available in the District Office.

Water-quality information is presented for chemical quality, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent observations made at the time of sample collection except for stations where a continuous or digital temperature recorder furnishes information from which daily minimums and maximums are obtained. Fluvial sediment information is given for suspended-sediment concentrations.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (° F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, ° C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per millions and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using the table on page 10.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," page 2 and table for converting English units to SI units, page 14.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

The daily chemical quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Field Analyses

Field-measured analyses represent conditions only at the time of sampling. The field-measured values for specific conductance and pH may be slightly different from values obtained for these parameters in the laboratory because some changes may occur during shipping and storage time in the laboratory.

Table 2.--Degrees Celsius (° C) to degrees Fahrenheit (° F)*
(temperature reported to nearest 0.5° C)

° C	° F	° C	° F	° C	° F	° C	° F	° C	° F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (° F - 32) or ° F = 9/5 (° C) + 32.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs or digital recorders are present, the records consist of maximum and minimum temperatures for each day and the monthly extremes.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

WATER-SUPPLY PAPERS

The annual series of water-supply papers that give information on quality of surface waters in Alabama are shown in the following table.

Table 3. --Water-supply paper numbers and parts, water years 1941-71

Year	Parts 1-14	Parts 1-4	Year	Parts 1-4	Parts 1-2	Parts 3-4
1941	942	....	1957	1520	....	....
1942	950	....	1958	1571	....	....
1943	970	....	1959	....	1641	1642
1944	1022	....	1960	....	1741	1742
1945	1030	....	1961	....	1881	1882
1946	1050	....	1962	....	1941	1942
1947	1102	....	1963	....	1947	1948
1948	a/1132	....	1964	....	1954	1955
1949	a/1162	....	1965	....	1961	1962
1950	....	1186	1966	....	1991	1992
1951	....	1197	1967	....	2011	2012
1952	....	1250	1968	....	b/2092	c/2093
1953	....	1290	1969	....	bd/2142	cd/2143
1954	....	1350	1970	....	bd/2152	cd/2153
1955	....	1400	1971	....	bd/2162	cd/2163
1956	....	1450				

a/ Parts 1-6
b/ Part 2
c/ Part 3
d/ In press

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and waste water, 13th ed.: Am. Public Health Assoc., New York, 874 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A3, 40 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, 2d ed.: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., p. 257.

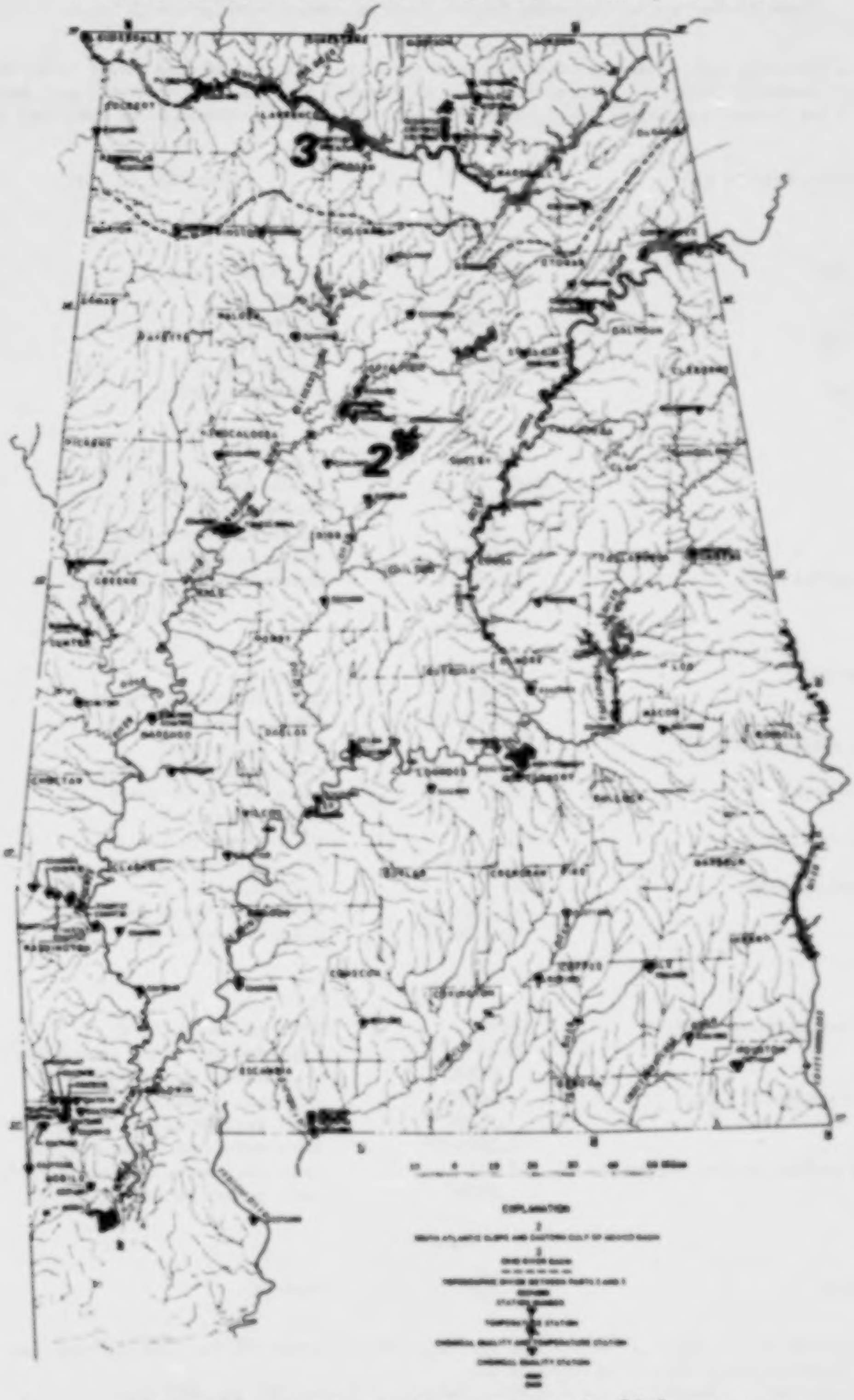

Figure 1. Water-quality stations in Alabama.

Table 4.—*Factors for converting English units to International System (SI) units*

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

* The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

APALACHICOLA RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	SPECI-FIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
02342500 UCHEE CREEK NEAR FORT MITCHELL, ALA. (LAT 32 19 00 LONG 085 00 34)							
FIELD ANALYSES							
NOV., 1971 29...	256	--	--	40	--	12.5	--
JAN., 1972 10...	370	--	--	40	--	12.5	--
FEB. 22...	466	--	--	40	--	9.5	--
APR. 24...	242	--	--	50	--	22.0	--
JUNE 06...	48	--	--	--	--	27.0	--
JULY 12...	58	--	--	--	--	26.5	--
AUG. 24...	43	--	--	50	--	20.0	--
02342933 SOUTH FORK COWIKEE CREEK NEAR BATESVILLE, ALA. (LAT 32 01 03 LONG 085 17 45)							
FIELD ANALYSES							
NOV., 1971 29...	313	--	--	60	--	12.5	--
JAN., 1972 10...	110	--	--	80	--	13.0	--
FEB. 22...	92	--	--	--	--	11.5	--
02343300 ABBIE CREEK NEAR HALEBURG, ALA. (LAT 31 28 26 LONG 085 09 45)							
FIELD ANALYSES							
NOV., 1971 29...	939	--	--	40	--	13.0	--
FEB., 1972 23...	201	--	--	--	--	11.0	--
02344000 CHATTAHOOCHEE RIVER AT ALAGA, ALA. (LAT 31 06 56 LONG 085 02 43)							
OCT., 1971 11...	13600	3.3	18	66	7.1	--	--
JAN., 1972 17...	32000	3.0	17	60	7.0	--	--
APR. 10...	15400	4.6	19	67	7.3	--	--
JULY 17...	11800	--	26	87	7.3	--	--
FIELD ANALYSES							
OCT., 1971 11...	--	--	--	--	--	22.0	8.8
JAN., 1972 17...	--	--	--	--	--	8.0	9.5
APR. 10...	--	--	--	--	--	16.0	7.5
JULY 17...	--	--	--	--	--	24.0	7.1

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.

LOCATION.--Lat 31°20'30", long 85°36'43", in SE¼ sec. 2, T. 4 N., R. 24 E., Dale County, at gaging station on left bank at downstream side on bridge on State Highway 123, 200 ft downstream from abandoned milldam, 1,300 ft upstream from Hurricane Creek, 0.8 mile north of Newton, 1 mile downstream from Atlantic Coast Line Railroad bridge, and at mile 133.0.

DRAINAGE AREA.--683 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1966, February 1972 to September 1972.
Water temperatures: March 1964 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 31.5°C July 23; minimum, 1.0°C Jan. 17.

Period of record:
Water temperatures (1964-1970, 1971-1972): Maximum, 36.0°C July 31, 1968; minimum, -1.0°C Jan. 10, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water year 1969 and 1971. No temperature data Oct. 1-5 because of recorder malfunction.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB.											
11...	2060	7.2	120	34	5.4	.8	1.8	.7	16	0	3.0
MAR.											
27...	944	5.9	700	16	7.4	1.0	2.3	.6	--	--	1.2
APR.											
24...	745	6.7	690	10	7.1	1.2	1.6	.6	--	--	1.4
JUNE											
06...	210	4.3	950	62	11	1.4	2.0	.8	--	--	1.6
JULY											
19...	344	7.3	80	5	9.6	1.2	2.2	.6	--	--	1.2
AUG.											
22...	139	7.5	370	16	12	1.4	2.2	1.0	--	--	2.0
SEP.											
19...	90	6.9	110	20	14	1.3	2.2	1.0	--	--	2.2

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB.										
11...	3.4	.1	.02	26	31	.04	17	4	.2	6.7
MAR.										
27...	3.2	.2	.07	38	34	.05	23	2	.2	--
APR.										
24...	3.2	.1	.02	44	34	.06	23	2	.1	--
JUNE										
06...	2.8	.1	.07	52	43	.07	34	2	.2	--
JULY										
19...	3.6	.1	.02	50	42	.07	29	1	.2	--
AUG.										
22...	3.2	.0	.05	53	52	.07	36	0	.2	--
SEP.										
19...	3.4	.1	.02	53	52	.07	41	6	.2	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
19...	379	--	--	--	--	18.0	--
NOV.							
30...	2300	--	--	40	--	11.5	--
FEB.							
11...	--	--	--	38	--	8.5	11.8
23...	1180	--	--	--	--	13.0	--
MAR.							
27...	--	26	0	58	6.2	16.0	10.2
APR.							
24...	--	26	0	58	7.0	22.0	8.2
26...	497	--	--	60	--	17.5	--
JUNE							
06...	--	39	0	76	7.2	23.0	9.2
JULY							
19...	--	34	0	69	7.2	25.0	7.7
AUG.							
22...	--	44	0	86	7.4	26.5	8.3
SEP.							
19...	--	43	0	83	7.9	27.5	9.8

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02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.5	19.5	12.0	10.5	16.5	15.0	10.5	8.5	19.0	16.5
2	---	---	22.5	21.0	10.5	9.0	16.0	15.0	9.5	9.0	19.0	16.5
3	---	---	23.5	21.5	9.0	8.0	15.0	14.0	9.5	8.0	16.5	12.5
4	---	---	22.5	15.5	8.0	7.5	15.5	13.0	8.0	6.0	12.5	11.0
5	---	---	17.0	11.5	8.0	7.5	15.5	10.5	6.0	3.5	13.5	12.0
6	24.0	22.0	14.5	11.5	12.0	8.0	10.5	6.5	7.5	3.5	12.5	10.0
7	23.0	19.5	14.5	13.5	14.0	11.0	6.5	6.0	9.0	7.5	13.0	8.5
8	20.5	17.0	17.0	10.0	14.0	12.0	5.5	3.5	8.5	7.0	14.0	12.0
9	19.5	17.5	13.5	10.0	14.0	12.0	8.5	6.0	8.0	7.0	13.0	11.0
10	19.5	17.5	11.0	10.0	16.5	14.0	12.5	8.5	8.0	6.5	13.0	9.0
11	17.5	13.0	12.0	8.0	18.0	16.5	14.0	12.5	8.0	7.0	14.0	9.5
12	17.0	12.0	11.0	7.5	19.5	18.0	14.0	12.5	8.5	8.0	15.5	11.0
13	17.5	13.5	11.0	7.5	20.0	19.0	14.0	14.0	9.0	7.5	17.0	13.0
14	19.5	17.0	12.0	8.5	19.5	18.0	16.0	13.5	8.0	6.0	18.5	16.0
15	20.5	18.0	13.0	10.0	20.0	19.0	13.5	7.5	9.0	7.0	19.5	16.5
16	21.5	18.0	13.5	10.0	21.0	20.0	7.5	3.0	11.0	9.0	19.5	19.5
17	21.0	20.0	13.5	10.5	21.0	18.5	3.5	1.0	13.0	11.0	18.5	15.5
18	21.5	19.5	14.5	11.5	18.5	14.0	4.5	1.5	12.5	11.0	17.0	13.5
19	20.5	17.5	14.0	13.5	14.0	11.0	7.0	4.5	11.0	8.5	17.5	13.5
20	19.5	17.5	14.5	14.0	16.0	13.0	9.0	7.0	9.0	6.5	19.0	14.5
21	20.0	18.5	15.5	11.0	16.0	15.0	11.5	9.0	9.5	6.5	19.0	17.0
22	20.0	19.0	13.5	9.5	16.0	14.5	13.0	11.5	12.0	8.5	20.5	18.0
23	20.0	19.0	11.0	9.5	14.5	12.0	14.5	12.0	14.5	11.0	20.0	16.0
24	21.0	19.0	11.0	10.0	12.0	10.5	15.5	14.0	16.5	13.5	19.5	16.0
25	20.5	18.0	10.0	9.0	12.0	10.0	15.5	14.0	18.0	16.0	18.5	16.0
26	20.5	18.0	10.5	7.0	12.0	10.0	14.0	12.0	19.0	17.5	16.5	13.5
27	20.5	16.5	10.5	7.5	13.0	11.0	13.0	11.0	18.5	16.0	17.5	13.5
28	19.5	16.5	12.5	8.5	14.5	12.5	14.5	12.5	16.5	15.0	20.0	17.0
29	19.5	16.5	12.5	8.5	16.0	14.5	16.5	14.5	18.0	15.0	21.0	19.5
30	19.0	17.5	13.5	11.5	16.5	15.5	16.5	13.5	---	---	21.0	16.5
31	20.0	19.0	---	---	17.0	16.5	13.5	10.5	---	---	16.5	15.0
MONTH	24.0	12.0	23.5	7.0	21.0	7.5	16.5	1.0	19.0	3.5	21.0	8.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	12.5	25.0	20.5	23.5	18.5	27.5	24.5	28.5	24.0	25.0	20.5
2	16.0	12.5	25.0	21.0	23.5	16.5	28.0	23.5	27.5	24.5	25.5	19.5
3	18.0	13.5	24.0	21.5	24.0	17.5	29.0	25.5	27.5	23.0	24.5	19.5
4	17.5	15.5	24.0	19.5	25.0	18.5	29.0	26.0	28.0	24.5	26.0	20.0
5	19.0	15.0	23.0	18.0	25.5	20.0	29.0	26.0	29.5	25.0	24.5	20.5
6	19.5	15.0	23.0	19.0	27.0	22.0	28.0	24.0	29.5	26.0	25.0	20.0
7	20.5	18.0	22.5	20.5	26.5	20.0	27.5	22.5	30.5	25.5	23.5	19.0
8	21.5	20.0	22.0	20.5	28.0	23.0	27.0	22.5	30.0	26.0	23.0	19.0
9	20.0	16.5	22.5	20.0	28.0	23.5	26.5	22.0	29.5	26.5	24.0	20.5
10	19.0	15.0	22.5	19.5	27.5	24.0	27.5	22.5	30.5	25.0	23.5	21.0
11	20.0	16.0	22.0	19.5	26.0	23.0	28.5	23.0	29.5	23.5	24.0	20.0
12	22.5	19.0	20.5	20.0	25.0	21.5	29.0	24.0	28.5	24.5	23.0	17.0
13	25.0	21.0	20.5	19.5	25.5	22.0	30.0	24.5	27.0	24.0	22.5	15.5
14	24.0	22.5	22.5	20.0	28.0	22.5	28.0	25.0	25.5	22.0	23.0	16.5
15	27.5	24.0	24.0	21.0	27.5	23.0	28.0	24.0	26.5	22.0	23.5	18.0
16	27.0	25.5	24.5	21.5	29.0	24.0	26.5	23.5	27.5	22.5	25.0	19.0
17	25.5	21.5	23.0	20.0	29.0	22.5	27.0	23.0	27.5	24.0	25.5	20.0
18	24.5	20.5	22.5	19.5	27.5	24.0	28.5	23.5	28.0	23.5	23.5	20.0
19	25.0	21.0	22.5	19.5	26.0	20.5	29.0	25.0	28.5	23.5	25.5	19.5
20	24.0	22.0	22.0	18.5	21.5	19.0	28.5	24.0	29.0	24.0	25.5	19.5
21	25.5	22.0	22.5	18.5	23.5	20.0	30.0	25.0	29.0	24.5	24.5	20.5
22	25.5	23.5	24.0	19.5	23.5	21.0	30.5	25.5	28.5	24.0	24.5	18.5
23	24.5	20.5	24.5	20.5	23.0	20.0	31.5	26.5	26.5	23.5	23.5	18.0
24	25.0	21.5	23.5	20.0	23.0	20.0	30.5	27.0	27.5	22.5	22.5	18.0
25	24.5	20.5	25.0	20.0	22.5	20.5	27.0	24.5	28.0	22.5	23.0	18.0
26	21.5	17.5	25.5	21.0	24.0	20.5	26.0	23.0	28.0	23.5	22.0	17.0
27	21.5	16.5	24.5	20.0	25.5	23.0	26.0	24.0	27.0	23.5	22.5	17.5
28	21.0	17.0	22.0	20.0	26.0	23.5	28.0	24.0	27.0	22.5	23.0	18.0
29	23.0	18.5	23.0	19.5	26.0	24.0	28.0	25.0	25.0	21.5	22.5	19.0
30	24.0	20.0	25.5	20.5	26.5	23.5	28.0	24.5	25.0	20.0	22.0	15.5
31	---	---	24.5	21.0	---	---	28.0	24.5	26.5	21.5	---	---
MONTH	27.5	12.5	25.5	18.0	29.0	16.5	31.5	22.0	30.5	20.0	26.0	15.5

02363000 PEA RIVER NEAR ARITON, ALA.

LOCATION.--Lat 31°35'41", long 85°46'59", in SW¼ sec. 7, T. 7 N., R. 23 E., Dale County, at gaging station, on left bank at downstream side of abandoned bridge, and about 20 ft upstream from bridge on U.S. Highway 231, 2.2 miles downstream from Bryors Mill Creek, 2.8 miles downstream from Atlantic Coast Line Railroad bridge, 3.5 miles west of Ariton, and at mile 89.6.

DRAINAGE AREA.--492 sq mi.

PERIOD OF RECORD.--July 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, and 1969.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 18...	95	8.7	60	89	11	1.4	2.1	.6	1.4
AUG. 22...	56	8.3	650	84	9.9	1.2	1.9	1.2	3.0
SEP. 19...	18	8.1	90	110	15	1.5	2.3	1.2	1.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
JULY 18...	3.8	.1	.02	58	48	.08	34	3	.2
AUG. 22...	3.2	.0	.07	50	46	.07	30	2	.2
SEP. 19...	3.8	.1	.02	58	60	.08	44	2	.2

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV. 29...	800	--	--	60	--	12.0	--
FEB. 24...	640	--	--	--	--	11.0	--
JULY 18...	--	38	0	78	7.3	28.0	8.8
AUG. 22...	--	36	0	74	7.1	26.5	7.2
SEP. 19...	--	48	0	93	7.4	26.5	8.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

CHOCTAWHATCHEE RIVER BASIN

02364500 PEA RIVER NEAR SAMSON, ALA. (LAT 31 06 45 LONG 086 05 58)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 11...	--	6.7	110	50	3.8	.8	1.8	.7	14	0	2.0
MAR. 28...	--	6.4	340	3	7.1	1.3	2.0	.6	--	--	1.8
APR. 25...	500	6.0	300	9	8.5	1.4	2.2	.6	--	--	.8
JUNE 05...	200	4.8	360	19	12	1.7	2.4	1.1	--	--	2.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
JAN. 11...	3.2	.1	.02	--	26	.04	13	2	.2	6.7
MAR. 28...	2.8	.1	.1	37	--	.05	23	--	.2	--
APR. 25...	3.4	.1	.05	47	39	.06	27	1	.2	--
JUNE 05...	3.4	.1	.05	63	49	.09	37	3	.2	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MAR. 28...	24	0	58	6.5	16.0	9.2
APR. 25...	31	0	65	7.1	20.5	8.1
JUNE 05...	43	0	87	7.6	26.0	7.9

BLACKWATER RIVER BASIN

02369800 BLACKWATER CREEK NEAR BRADLEY, ALA. (LAT 31 01 39 LONG 086 42 36)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT. 20...	45	16	--
DEC. 01...	78	40	12.0
JAN. 11...	139	40	17.0
FEB. 24...	102	--	15.0
APR. 27...	46	20	17.5
JUNE 07...	44	--	23.0
JULY 20...	50	--	23.0
AUG. 21...	33	20	24.0

02371200 INDIAN CREEK NEAR TROY, ALA.

LOCATION.--Lat 31°48'50", long 86°07'15", in E½ sec. 26, T. 10 N., R. 19 E., Pike County, at gaging station at left downstream wingwall of culvert on U.S. Highway 29, 3.5 miles upstream from mouth and 9 miles west of Troy.

DRAINAGE AREA.--8.88 sq mi.

PERIOD OF RECORD.--Water temperatures: December 1970 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 25.5°C July 23, 24, 28, 29; minimum, 7.0°C Dec. 4-6.

Period of record:
Water temperatures: Maximum, 28.0°C June 26, 1971; minimum, 4.0°C Feb. 10, 1971.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1969, and 1971. No temperature data for Nov. 25-30, Jan. 20-23, and Apr. 18-26 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT.			
19...	3.9	--	16.5
NOV.			
30...	7.2	60	9.5
JAN.			
24...	14	40	14.5
APR.			
26...	6.9	40	15.0
JUNE			
09...	3.0	--	22.0
AUG.			
21...	1.6	50	24.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	22.5	19.5	19.0	9.5	9.0	15.5	14.0	13.0	12.5	15.5	15.5
2	23.5	22.5	20.0	19.5	9.0	8.5	14.5	14.0	12.5	12.0	15.5	15.5
3	23.5	22.5	20.0	19.5	8.5	7.5	14.5	13.5	12.5	12.0	15.5	14.0
4	23.5	22.5	19.5	17.0	7.5	7.0	15.0	13.5	12.5	10.5	14.0	13.0
5	23.0	22.5	17.0	14.5	7.0	7.0	15.0	13.5	11.0	9.5	14.5	14.0
6	23.0	23.0	16.0	15.0	9.5	7.0	13.5	11.0	10.5	9.5	14.5	12.5
7	23.0	21.5	16.0	16.0	11.0	9.5	11.0	9.5	11.5	10.5	14.0	12.0
8	22.0	20.5	16.0	13.5	11.0	10.0	10.0	9.0	12.0	10.5	14.5	14.0
9	21.5	20.5	13.5	12.0	11.0	10.0	11.0	9.5	11.5	10.5	14.5	13.0
10	21.0	20.5	12.0	11.5	13.0	11.0	13.5	11.0	11.5	10.0	14.0	12.0
11	20.5	19.0	12.0	11.0	14.0	13.0	15.0	13.5	11.5	11.0	14.5	12.5
12	20.0	18.5	11.5	10.5	15.0	14.0	15.0	14.0	12.0	11.5	15.0	13.5
13	19.5	18.5	12.0	10.5	15.0	14.5	15.5	14.5	12.0	11.5	16.0	14.5
14	20.0	19.0	12.0	11.5	14.5	14.0	15.5	15.0	11.5	10.0	17.0	16.0
15	20.5	20.0	12.5	11.5	15.5	14.5	15.0	13.0	12.0	11.0	16.0	14.5
16	21.0	20.0	12.5	11.5	16.0	15.5	13.0	10.5	12.0	12.0	16.5	16.0
17	21.0	21.0	13.0	12.0	16.0	15.5	10.5	9.0	13.5	12.0	16.5	14.5
18	21.0	20.5	13.5	12.5	15.5	12.5	10.0	8.5	13.5	12.5	15.5	13.5
19	21.0	20.0	13.5	13.0	12.5	10.5	12.0	10.0	13.0	11.5	15.0	13.5
20	20.0	19.5	14.0	13.5	12.5	11.0	---	---	11.5	10.0	16.0	14.0
21	20.0	19.5	13.5	12.0	14.0	12.5	---	---	12.0	10.0	16.0	15.0
22	20.0	20.0	12.0	10.0	14.0	13.0	---	---	13.0	12.0	16.5	15.5
23	20.0	20.0	10.0	9.5	13.0	12.0	---	---	14.0	13.0	16.5	14.5
24	20.0	20.0	9.5	9.5	12.0	11.0	15.5	14.5	14.5	14.0	16.0	14.5
25	20.0	19.0	---	---	12.5	12.0	15.5	15.5	15.5	14.5	15.0	14.5
26	19.0	18.0	---	---	13.0	12.0	15.5	13.5	16.0	15.5	14.5	13.0
27	18.5	17.0	---	---	13.0	12.5	13.5	13.0	16.0	15.0	15.0	14.0
28	17.5	16.5	---	---	14.0	13.0	15.0	13.5	15.0	14.0	17.0	15.0
29	18.0	17.0	---	---	15.0	14.0	15.5	15.0	15.5	15.0	18.0	17.0
30	18.0	18.0	---	---	15.5	15.0	15.5	15.0	---	---	18.0	15.5
31	19.0	18.0	---	---	15.5	15.5	15.0	13.0	---	---	15.5	14.5
MONTH	23.5	16.5	20.0	9.5	16.0	7.0	15.5	8.5	16.0	9.5	18.0	12.0

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02371200 INDIAN CREEK NEAR TROY, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	18.5	17.0	20.0	18.0	24.0	23.0	24.5	22.5	23.5	22.5
2	15.0	13.0	18.5	17.5	18.5	17.0	24.0	23.0	25.0	24.0	23.5	22.0
3	15.5	13.5	18.5	18.0	18.5	17.0	25.0	24.0	25.0	23.5	23.5	22.5
4	15.5	15.0	18.0	17.0	19.5	17.5	25.0	23.5	24.0	23.0	23.5	22.5
5	15.5	14.0	18.0	16.0	20.0	18.0	23.5	22.5	25.0	23.5	23.5	23.0
6	16.0	14.0	18.0	16.5	21.0	19.5	22.5	22.0	25.0	23.5	23.0	22.0
7	17.0	16.0	18.5	17.5	22.0	20.5	23.0	21.5	25.0	24.0	23.0	22.0
8	17.0	17.0	18.5	18.0	22.0	21.0	23.5	22.0	25.0	24.0	23.0	22.0
9	17.0	15.0	18.5	18.0	23.5	21.0	23.5	22.0	25.0	24.0	23.5	23.0
10	16.0	14.5	18.5	17.5	23.5	23.0	24.0	22.5	24.5	23.5	23.5	23.0
11	16.5	15.0	18.0	17.5	23.5	22.0	24.0	23.0	25.0	23.5	23.0	22.0
12	18.0	16.5	17.5	17.5	22.5	21.5	24.5	23.0	25.0	24.0	23.0	21.5
13	19.0	18.0	18.0	17.5	23.0	22.0	25.0	24.0	25.0	24.0	24.0	22.0
14	19.5	18.5	18.5	18.0	23.5	22.0	25.0	24.0	24.5	23.5	24.0	22.5
15	20.0	19.0	19.0	18.5	24.0	22.0	24.5	23.5	24.0	22.5	24.0	23.0
16	20.0	20.0	19.0	18.0	24.5	22.5	24.0	23.5	23.5	22.0	24.5	23.5
17	20.0	18.5	18.5	16.0	25.0	22.5	25.0	23.5	24.0	23.0	25.0	24.0
18	---	---	18.5	18.0	25.0	23.5	24.0	23.0	24.5	23.0	25.0	24.5
19	---	---	18.5	18.0	24.5	22.5	24.5	23.5	25.0	23.5	24.5	24.0
20	---	---	18.5	17.5	22.5	22.0	25.0	23.5	25.0	24.0	24.5	24.0
21	---	---	19.0	18.0	23.0	22.0	25.0	23.5	25.0	23.5	24.5	24.0
22	---	---	19.0	18.0	22.0	21.0	25.0	24.0	25.0	24.0	24.5	23.5
23	---	---	19.0	18.5	21.0	20.0	25.5	24.0	25.0	23.5	24.0	23.5
24	---	---	19.5	18.5	21.0	20.0	25.5	24.5	24.0	23.0	24.0	23.5
25	---	---	19.5	18.5	21.0	21.0	25.0	23.5	24.5	23.0	24.0	23.0
26	---	---	20.0	19.0	21.0	21.0	24.5	23.0	24.5	23.5	24.0	23.0
27	16.0	15.0	20.0	19.0	21.5	21.0	25.0	24.0	25.0	24.0	24.0	23.0
28	16.0	15.0	19.0	19.0	22.5	21.5	25.5	24.5	25.0	23.5	24.5	23.5
29	17.0	16.0	19.5	19.0	22.5	22.5	25.5	24.5	24.0	23.0	24.0	24.0
30	18.0	17.0	19.5	19.0	23.0	22.0	24.5	23.0	23.5	22.5	24.0	20.5
31	---	---	20.0	19.5	---	---	23.0	22.5	23.5	22.5	---	---
MONTH	---	---	20.0	16.0	25.0	17.0	25.5	21.5	25.0	22.0	25.0	20.5

02371500 CONECUH RIVER AT BRANTLEY, ALA.

LOCATION.--Lat 31°34'24", long 86°15'06", in SE¼ sec. 16, T. 7 N., R. 18 E., Crenshaw County, at gaging station on left bank at downstream side of bridge on U.S. Highway 331 and State Highway 52, 0.5 mile downstream from Moody Mill Creek, 0.8 mile southeast of Brantley, and at mile 112.3.

DRAINAGE AREA.--492 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1968, February 1972 to September 1972.
Water temperatures: March 1964 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.5°C August 7, 8, 10, 11; minimum, 7.0°C Jan. 18, Feb. 5.

Period of record:
Water temperatures (1964-1970, 1971-1972): Maximum, 29.0°C on several days in 1964, 1968, and 1969; minimum, 2.0°C Jan. 31, Feb. 1, 1966, Jan. 9-11, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water year 1969 and 1971.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 10...	1700	6.7	700	74	4.7	.9	2.0	.8	13	0	3.8
MAR. 28...	610	6.0	890	55	9.6	1.1	2.5	.6	--	--	2.6
APR. 24...	539	5.9	590	14	7.6	1.1	2.1	.5	--	--	1.8
JUNE 05...	96	7.2	670	95	20	1.6	2.4	.9	--	--	2.0
JULY 19...	164	9.4	60	100	15	1.5	2.5	.8	--	--	1.6
AUG. 22...	66	9.6	530	90	22	1.3	2.6	1.1	--	--	2.8
SEP. 19...	30	9.1	140	100	28	1.7	2.9	1.2	--	--	2.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB. 10...	4.0	.1	.02	34	30	.05	15	4	.2	6.8
MAR. 28...	3.6	.1	.2	46	42	.06	29	5	.2	--
APR. 24...	3.2	.1	.5	46	38	.06	24	2	.2	--
JUNE 05...	3.4	.1	.02	77	69	.10	57	5	.1	--
JULY 19...	3.6	.1	.2	67	60	.09	44	2	.2	--
AUG. 22...	3.6	.0	.2	83	79	.11	61	3	.1	--
SEP. 19...	3.8	.1	.2	96	96	.13	77	0	.1	--

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02371500 CONECUH RIVER AT BRANTLEY, ALA.--Continued

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
19...	117	--	--	--	--	19.0	--
NOV.							
30...	464	--	--	63	--	12.0	--
JAN.							
26...	1170	--	--	60	--	16.0	--
FEB.							
15...	--	--	--	45	--	8.0	10.8
24...	695	--	--	--	--	14.0	--
MAR.							
28...	--	30	0	92	6.5	16.0	9.1
APR.							
24...	--	27	0	60	7.0	21.0	7.4
26...	482	--	--	70	--	20.0	--
JUNE							
05...	--	64	0	120	7.7	23.0	8.3
06...	91	--	--	--	--	23.0	--
JULY							
19...	--	52	0	100	7.2	24.5	7.1
AUG.							
22...	--	72	0	130	7.6	26.0	7.6
SEP.							
13...	--	92	0	157	7.4	24.0	7.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	23.0	20.5	20.0	11.0	11.0	14.5	14.0	12.5	11.5	16.5	14.0
2	26.0	23.0	21.0	20.0	11.0	10.0	14.0	14.0	11.5	11.0	16.5	14.0
3	26.0	22.5	21.0	20.0	10.0	9.5	16.0	15.0	11.0	10.5	16.0	14.0
4	26.0	22.5	20.0	18.5	9.0	8.5	15.5	15.0	10.5	8.0	16.0	13.0
5	25.5	22.5	19.0	16.5	8.5	8.5	15.5	14.0	8.0	7.0	13.5	13.0
6	23.5	23.0	16.5	15.5	9.5	8.5	14.0	11.0	8.5	7.5	13.5	12.5
7	23.0	21.5	16.5	15.5	10.5	9.5	11.0	9.5	10.0	8.5	12.5	12.0
8	21.5	20.0	15.5	13.5	11.0	10.5	9.5	8.5	9.5	8.5	13.5	12.5
9	20.5	20.0	13.5	13.0	11.5	11.0	9.0	8.5	8.5	8.5	13.5	12.0
10	20.5	19.5	13.0	12.5	13.0	11.5	11.0	9.0	8.5	8.0	13.0	11.5
11	19.5	17.5	12.5	11.5	14.5	13.0	13.0	11.0	8.0	8.5	13.5	12.5
12	18.0	17.0	12.0	11.0	16.0	14.5	14.0	13.0	9.0	9.0	16.0	13.5
13	18.0	17.0	12.0	11.0	16.5	16.0	16.0	14.0	9.0	9.0	15.0	16.0
14	19.0	18.0	12.5	11.5	16.5	16.5	14.0	14.5	9.0	8.5	16.0	15.0
15	19.5	19.0	12.5	12.0	17.0	16.5	14.5	11.0	9.0	8.5	17.0	14.0
16	20.0	19.0	13.0	12.0	18.0	17.0	11.0	8.0	10.0	9.0	17.5	17.0
17	20.0	20.0	13.5	12.5	18.0	17.5	8.0	7.5	11.0	10.0	17.5	17.0
18	21.0	20.0	14.0	13.0	17.5	15.5	7.5	7.0	11.0	11.0	17.0	15.5
19	20.5	19.5	14.5	14.0	15.5	14.0	8.5	7.5	11.0	10.0	16.0	15.5
20	20.0	19.5	14.5	13.5	15.0	14.0	9.5	8.5	10.0	9.0	16.0	15.5
21	20.5	20.0	13.5	13.0	15.5	15.0	11.0	9.5	9.5	9.0	16.5	16.0
22	20.5	20.5	13.0	11.5	15.5	15.0	12.0	11.0	10.0	9.5	17.5	16.5
23	20.5	20.0	11.5	11.5	15.0	13.5	13.0	12.0	11.5	10.0	17.0	16.5
24	21.0	20.0	11.5	11.5	13.5	12.5	14.5	13.0	13.0	11.5	17.0	16.5
25	20.5	20.0	11.5	10.5	12.5	12.5	15.0	14.5	14.5	13.0	16.5	14.0
26	20.0	19.0	10.5	10.0	13.0	12.5	14.5	13.5	15.5	14.5	16.0	15.0
27	19.5	18.5	11.5	10.5	13.0	13.0	13.5	13.5	15.5	15.5	15.0	15.0
28	19.0	18.0	11.0	10.0	14.0	13.0	14.0	13.5	15.5	15.0	17.0	15.0
29	19.0	18.0	11.5	10.5	15.0	14.0	15.0	14.0	14.0	15.5	18.0	17.0
30	19.5	19.0	11.5	11.0	16.0	15.0	15.0	14.5	---	---	18.0	17.0
31	20.0	19.5	---	---	16.5	16.0	14.5	12.5	---	---	17.0	16.0
MONTH	26.0	17.0	21.0	10.0	18.0	8.5	16.5	7.0	16.0	7.0	18.0	11.5

02371500 CONECUH RIVER AT BRANTLEY, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	21.0	19.5	23.0	21.0	23.5	23.0	25.5	24.0	25.5	24.0
2	15.5	15.0	21.5	20.0	22.5	20.0	23.5	23.0	25.5	24.5	25.0	23.5
3	16.0	15.0	21.5	20.5	22.5	20.5	24.5	23.5	25.5	24.5	25.5	23.5
4	16.0	16.0	21.5	20.0	23.0	20.5	25.0	24.0	26.5	25.0	25.5	23.5
5	16.0	15.5	21.0	19.5	23.5	21.0	25.0	23.5	27.0	25.0	25.0	24.0
6	16.5	15.5	21.0	19.5	25.0	22.0	23.5	23.0	27.0	25.5	25.0	23.5
7	17.5	16.5	20.5	20.0	25.5	23.5	23.0	22.0	27.5	25.5	25.0	23.0
8	18.0	17.5	20.5	20.0	25.5	23.0	23.5	22.5	27.5	26.0	25.0	23.0
9	18.0	17.0	20.5	20.0	26.0	24.0	23.5	22.5	27.0	26.0	26.0	24.0
10	17.5	16.5	21.0	20.0	25.5	24.0	24.0	22.5	27.5	25.5	25.5	24.5
11	17.5	16.5	20.5	20.5	24.5	23.5	24.0	22.5	27.5	25.0	25.5	24.0
12	18.5	17.5	20.5	20.0	24.0	22.5	25.0	23.0	27.0	25.5	25.0	22.5
13	20.0	18.5	20.0	20.0	24.5	23.0	25.5	23.5	27.0	25.5	24.0	21.5
14	21.0	20.0	21.0	20.0	25.5	23.0	25.0	24.0	26.0	25.0	24.5	22.0
15	22.0	21.0	21.5	20.5	25.0	23.0	24.5	23.0	26.0	24.0	25.0	22.5
16	22.5	22.0	21.5	21.0	26.0	23.5	24.5	23.5	26.0	24.5	25.5	23.5
17	22.5	21.0	21.5	21.0	26.0	23.5	25.0	23.0	26.0	25.0	26.5	24.0
18	22.0	20.5	22.0	21.0	25.5	24.0	25.5	23.5	26.5	24.5	26.0	24.0
19	21.5	20.5	22.0	21.0	25.0	23.0	26.0	24.0	27.0	25.0	26.5	23.5
20	22.0	20.5	21.5	20.5	24.0	22.0	26.0	24.0	27.0	25.0	26.0	24.0
21	22.0	21.0	22.0	20.5	24.5	23.0	26.5	24.5	27.0	25.5	26.0	24.0
22	22.0	21.5	22.5	21.0	24.0	23.0	27.0	24.5	26.5	25.5	26.0	23.5
23	21.5	20.5	23.0	21.0	24.0	23.0	27.0	25.0	26.0	25.0	25.5	23.0
24	21.0	20.5	22.0	21.0	23.5	23.0	27.0	25.0	26.0	24.0	25.0	23.0
25	21.0	20.0	23.0	21.0	23.5	21.5	26.0	25.0	26.0	24.5	24.5	23.0
26	20.5	19.0	23.5	21.5	21.5	21.5	26.5	24.5	26.5	24.5	25.5	23.0
27	19.5	18.5	23.0	21.5	23.0	21.5	27.0	25.0	27.0	25.0	25.5	23.5
28	19.0	18.5	22.5	21.5	23.5	23.0	27.0	25.0	27.0	25.0	26.0	23.5
29	20.0	18.5	22.0	21.0	23.5	23.0	27.0	25.5	26.0	24.5	26.0	24.0
30	20.0	19.0	23.0	21.0	23.5	23.0	26.0	25.0	25.5	23.5	25.0	21.5
31	---	---	23.5	22.0	---	---	25.5	24.5	26.0	24.0	---	---
MONTH	22.5	15.0	23.5	19.5	26.0	20.0	27.0	22.0	27.5	23.5	26.5	21.5

02374500 MURDER CREEK NEAR EVERGREEN, ALA.

LOCATION.--Lat 31°25'06", long 86°59'12", in NW¼ sec. 8, T.5 N., R.11 E., Conecuh County, at gaging station on left bank 30 ft upstream from bridge on U.S. Highway 31, 1 mile upstream from Louisville & Nashville Railroad bridge, and 2.5 miles southwest of Evergreen.

DRAINAGE AREA.--170 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 05...	115	8.6	1000	70	4.8	.7	1.6	.4	18	0	1.6
NOV. 03...	167	7.1	30	--	5.0	.9	1.5	.5	19	0	.4
DEC. 07...	315	7.2	170	120	6.3	.8	1.6	1.1	19	0	2.4
FEB. 10...	606	8.2	70	70	4.1	.6	1.5	.4	12	0	2.8
MAR. 28...	257	4.3	140	130	7.5	.8	1.7	.3	--	--	1.4
APR. 25...	153	5.9	760	130	4.6	.1	1.5	.6	--	--	.6
JUNE 06...	96	5.4	720	71	4.7	.7	1.4	.5	--	--	1.2
JULY 19...	140	8.1	530	61	3.8	.7	1.5	.3	--	--	1.6
AUG. 22...	66	8.7	980	67	4.1	.6	1.7	.5	--	--	1.2
SEP. 14...	64	7.6	670	60	4.1	.6	1.4	.4	--	--	.2

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
OCT. 05...	2.4	.0	.02	26	30	.04	15	0	.2	6.9	--
NOV. 03...	2.6	.1	.1	38	28	.05	16	0	.2	6.7	5
DEC. 07...	3.2	.1	.07	46	33	.06	19	3	.2	7.1	20
FEB. 10...	3.2	.1	.02	--	27	.04	13	3	.2	6.8	--
MAR. 28...	3.6	.1	.05	26	33	.04	22	1	.2	--	--
APR. 25...	2.6	.0	.1	35	25	.05	15	0	.2	--	--
JUNE 06...	2.8	.1	.02	29	25	.04	15	1	.2	--	--
JULY 19...	2.8	.1	.02	35	26	.05	13	1	.2	--	--
AUG. 22...	3.2	.0	.1	30	28	.04	13	0	.2	--	--
SEP. 14...	3.2	.0	.1	25	25	.03	13	2	.2	--	--

02374500 MURDER CREEK NEAR EVERGREEN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
05...	--	--	--	39	--	21.5	--
NOV.							
03...	--	--	--	43	--	20.5	--
DEC.							
01...	308	--	--	40	--	10.0	--
07...	--	--	--	50	--	13.0	--
JAN.							
26...	292	--	--	45	--	16.0	--
FEB.							
10...	--	--	--	35	--	9.0	13.3
25...	279	--	--	--	--	15.0	--
MAR.							
28...	--	26	0	59	6.8	17.5	8.5
APR.							
25...	--	18	0	39	6.8	19.0	8.0
27...	110	--	--	40	--	17.0	--
JUNE							
06...	96	17	0	36	6.8	21.0	8.2
08...	122	--	--	--	--	23.0	--
JULY							
19...	--	15	0	33	6.8	23.5	7.5
20...	58	--	--	40	--	24.0	--
AUG.							
22...	--	16	0	36	6.8	25.0	7.5
28...	69	--	--	35	--	24.5	--
SEP.							
14...	--	14	0	33	6.4	25.0	7.9

02374750 LITTLE ESCAMBIA CREEK BELOW CHAVERS CREEK, ALA.

LOCATION.--Lat 31°04'23", long 87°12'57", in SE¼SE¼ sec. 1, T. 1 N., R. 8 E., Escambia County, at left bank, 0.1 mile downstream from Chavers Creek, 4 miles northeast of Pollard, Ala., and 4.3 miles upstream from U.S. Highway 31.

DRAINAGE AREA.--126 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1963 and 1965.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	9.0	4	0	4.8	8	5	23	6.4	22.0
29...	8.0	4	0	3.2	12	9	21	6.0	13.0
DEC.									
27...	9.0	4	0	13	10	7	55	6.0	13.0
JAN.									
31...	26	2	0	4.0	10	9	26	6.1	12.0
FEB.									
28...	18	4	0	3.0	6	3	21	5.9	17.0
MAR.									
29...	28	6	0	3.0	6	1	18	6.3	17.0
APR.									
26...	20	3	0	4.4	6	4	23	6.1	19.0
MAY									
24...	23	4	0	9.2	6	3	39	6.5	--
JUNE									
22...	23	4	0	4.4	4	1	24	6.4	--
SEP.									
27...	15	5	0	3.0	4	0	17	6.0	25.0

02374780 LITTLE ESCAMBIA CREEK BELOW POLLARD OIL FIELD

LOCATION.--Lat 31°02'42", long 87°13'06", in SE¼NW¼ sec. 13, T. 1 N., R. 8 E., Escambia County, at left bank at bridge on county road, 2.1 miles upstream from U.S. Highway 31, 2.2 miles downstream from Chavers Creek, and 2.8 miles northwest of Pollard, Ala.

DRAINAGE AREA.--129 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1963 and 1967.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	10	4	0	19	10	7	72	5.9	20.0
29...	10	4	0	17	14	11	71	5.9	12.0
DEC.									
27...	10	4	0	4.4	8	5	21	6.0	13.5
JAN.									
31...	26	1	0	8.0	16	15	56	5.0	11.0
FEB.									
28...	20	2	0	13	14	13	64	5.9	16.0
MAR.									
29...	30	4	0	13	10	7	53	6.2	17.0
APR.									
26...	25	3	0	19	18	16	74	5.7	19.0
MAY									
24...	25	4	0	21	12	9	82	6.1	20.5
JUNE									
28...	25	2	0	19	10	9	80	4.9	—
SEP.									
27...	17	5	0	19	10	6	69	6.4	25.0

02376000 LITTLE ESCAMBIA CREEK NEAR POLLARD, ALA.

LOCATION.--Lat 31°01'16", long 87°12'25", in NE¼NE¼ sec. 30, T. 1 N., R. 9 E., Escambia County, at left bank at bridge on U.S. Highway 31, 2 miles west of Pollard, and at mile 3.1.

DRAINAGE AREA.--138 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	11	4	0	18	12	9	68	6.1	21.0
29...	12	6	0	16	14	9	66	6.0	14.0
DEC.									
27...	11	4	0	13	12	9	54	5.8	13.5
JAN.									
31...	30	2	0	7.2	12	11	35	5.8	12.0
FEB.									
28...	25	4	0	16	10	7	79	5.8	17.0
MAR.									
29...	32	5	0	9.2	10	6	41	6.3	17.0
APR.									
26...	28	5	0	18	14	10	66	6.2	20.0
MAY									
24...	28	3	0	29	10	8	76	6.1	23.0
JUNE									
28...	28	3	0	18	9	7	74	5.5	--
SEP.									
27...	19	3	0	19	10	8	66	6.0	24.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02374797 TRIBUTARY TO LITTLE ESCAMBIA CREEK, POLLARD OIL FIELD, ALA. (LAT 31 03 33 LONG 087 13 20)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUL., 1972									
28...	.10	0	0	490	150	150	1490	4.0	--
SEP.									
27...	0.0	0	0	600	260	260	1970	4.1	26.0

02376500 PERDIDO RIVER AT BARRINEAU PARK, FLA.

LOCATION.--Lat 30°41'25", long 87°26'25", in NW quarter sec. 23, T. 4 S., R. 6 E., Baldwin County, Ala., at gaging station, on right bank 25 ft downstream from county highway bridge, 1,000 ft downstream from Alligator Creek, 0.5 mile southwest of Barrineau Park, and 27 miles upstream from mouth.

DRAINAGE AREA.--394 sq mi.

PERIOD OF RECORD.--Chemical analyses: February to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1969.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
FEB. 10...	1190	7.4	--	110	28	.7	.6	2.0	.3	2
MAR. 29...	586	3.4	--	150	25	1.3	.6	1.9	.1	--
APR. 25...	410	6.4	--	160	50	.4	.5	1.8	.3	--
26...	353	7.3	650	190	--	.8	.4	2.3	.3	2
JUNE 06...	248	3.8	--	160	12	.6	.5	2.0	.4	--
JULY 19...	390	7.8	--	180	39	.9	.6	1.8	.3	--
AUG. 22...	278	7.1	--	360	20	.9	.5	2.1	.4	--
SEP. 13...	229	6.9	460	0	--	1.6	.5	1.6	.5	3
20...	180	7.2	--	330	0	.8	.4	2.0	.3	--

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
FEB. 10...	0	3.4	3.6	.1	--	--	.05	--	22	19
MAR. 29...	--	1.6	4.8	.1	--	--	.05	--	21	14
APR. 25...	--	.8	3.0	.0	--	--	.05	--	24	15
26...	0	.4	4.6	.2	.59	.000	.04	.020	28	17
JUNE 06...	--	1.2	3.2	.1	--	--	.02	--	--	14
JULY 19...	--	2.0	3.8	.1	--	--	.02	--	--	18
AUG. 22...	--	2.4	3.2	.0	--	--	.02	--	20	27
SEP. 13...	0	1.6	3.0	.1	.56	.000	.1	.040	20	17
20...	--	1.0	4.4	.0	--	--	.02	--	18	17

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ARSENIC (AS) (UG/L)
FEB. 10...	.03	4	2	.4	5.0	--	--	--
MAR. 29...	.03	6	5	.3	--	--	--	--
APR. 25...	.03	3	0	.4	--	--	--	--
26...	.04	4	2	.5	--	30	.2	0
JUNE 06...	.02	4	1	.5	--	--	--	--
JULY 19...	.02	5	4	.4	--	--	--	--
AUG. 22...	.03	5	2	.2	--	--	--	--
SEP. 13...	.03	6	4	.3	--	20	.4	10
20...	.02	4	2	.5	--	--	--	--

02376500 PERDIDO RIVER AT BARRINEAU PARK, FLA.--Continued

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB.						
10...	--	--	23	--	10.0	10.6
MAR.						
29...	2	0	23	5.5	18.0	8.6
APR.						
25...	3	0	20	5.7	21.0	8.7
26...	--	--	19	4.9	21.0	7.2
JUNE						
06...	4	0	18	6.0	24.0	9.0
JULY						
19...	4	0	20	5.7	25.0	8.1
AUG.						
22...	4	0	23	5.7	23.5	8.5
SEP.						
13...	--	--	26	5.5	25.0	9.1
20...	3	0	19	5.6	24.0	8.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02378500 FISH RIVER NEAR SILVERHILL, ALA. (LAT 30 32 43 LONG 087 47 55)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB., 1972											
10...	96	7.3	90	2	1.0	.8	2.6	1.1	4	0	2.4
MAR.											
29...	132	3.7	190	76	2.3	1.1	2.5	1.5	--	--	5.2
APR.											
26...	145	6.0	140	40	.9	.8	2.5	.5	--	--	.6
JUNE											
07...	139	5.3	160	20	1.2	.8	2.4	.3	--	--	.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB., 1972										
10...	4.8	.1	.07	--	22	.03	6	3	.5	6.3
MAR.										
29...	4.2	.1	.2	30	24	.04	10	7	.3	--
APR.										
26...	4.0	.0	.5	25	20	.03	6	2	.5	--
JUNE										
07...	4.2	.0	.6	26	19	.04	7	4	.4	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB., 1972						
10...	--	--	28	--	12.5	10.2
MAR.						
29...	4	0	41	5.1	19.0	7.6
APR.						
26...	5	0	28	6.1	17.0	8.4
JUNE						
07...	4	0	29	5.9	20.5	8.0

02400500 COOSA RIVER AT GADSDEN, ALA.

LOCATION.--Lat 34°00'37", long 85°59'52", in NE¼ sec.10, T. 12 S., R. 6 E., Etowah County, at gaging station near midstream pier of Etowah County Memorial Bridge on Forrest Avenue in Gadsden, 450 ft downstream from Louisville & Nashville Railroad bridge, 1.5 miles upstream from Big Wills Creek, and at mile 174.8.

DRAINAGE AREA.--5,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1966-67 (partial-record station), August 1969 to September 1972.
Water temperatures: October 1962 to September 1972.

EXTREMES.--

Period of record:
Water temperatures (1962-71): Maximum, 31.5°C July 11, 12, 1970; minimum, 2.0°C on several days in 1963, 1964, and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. No temperature data Oct. 1-20, Jan. 15- Feb. 22, Apr. 26 - May 22, Aug. 8-21 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.									
29...	5670	2.6	10	10	13	4.3	9.7	1.8	8.8
DEC.									
01...	15500	5.4	30	10	13	4.0	9.8	1.8	8.6
22...	15100	7.2	90	10	12	3.2	4.9	1.5	7.8
JAN.									
28...	16100	6.8	100	30	9.4	2.7	3.1	1.4	6.4
FEB.									
25...	9970	5.9	90	20	11	3.8	3.2	1.4	7.6
APR.									
05...	12600	5.7	70	50	11	3.1	3.9	1.0	6.8
MAY									
11...	7590	1.8	50	40	13	3.6	5.1	1.2	5.0
JUNE									
26...	7460	1.3	0	6	13	3.5	5.2	1.1	6.4
AUG.									
02...	8570	--	--	--	--	--	--	--	--
30...	7620	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.								
29...	6.4	.1	--	.07	--	--	--	80
DEC.								
01...	6.6	.1	--	.02	--	--	91	81
22...	4.0	.1	--	.3	--	--	--	64
JAN.								
28...	2.8	.1	--	.05	--	--	55	52
FEB.								
25...	2.8	.1	--	.3	--	--	59	60
APR.								
05...	2.9	.0	--	.2	--	--	65	59
MAY								
11...	3.6	.0	--	.09	--	--	63	63
JUNE								
26...	3.6	.1	--	.05	--	--	64	61
AUG.								
02...	--	--	.47	--	.2	.060	--	--
30...	--	--	--	--	.05	.010	--	--

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT.								
29...	.11	50	0	.6	--	--	--	--
DEC.								
01...	.12	49	0	.6	--	--	--	--
22...	.09	43	6	.3	--	--	--	--
JAN.								
28...	.07	35	3	.2	--	--	--	--
FEB.								
25...	.08	43	5	.2	--	--	--	--
APR.								
05...	.09	40	0	.3	--	--	--	--
MAY								
11...	.09	48	0	.3	--	--	--	--
JUNE								
26...	.09	47	2	.3	--	--	--	--
AUG.								
02...	--	--	--	--	17	50	12000	<10
30...	--	--	--	--	10	2	12000	--

02400500 COOSA RIVER AT GADSDEN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYLLIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GERMANIUM (GE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC. 01...	61	130	<.5	<3	40	<46	<3	<3	2	<.5	<3	<3
APR. 05...	65	86	<.3	<2	23	<33	2	<2	1	<2	<4	2
JUNE 26...	43	78	<.6	<2	19	<28	<3	<2	4	<2	<3	<2

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLYBDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBIDIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TITANIUM (TI) (UG/L)	DIS-SOLVED VANADIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIRCONIUM (ZR) (UG/L)
DEC. 01...	<10	1	<3	--	<.5	59	<3	4	<1	<220	<5
APR. 05...	<10	<.3	<2	--	<.3	48	<4	2	<2	<71	<4
JUNE 26...	<10	.5	<2	--	<.3	34	<3	<6	<.6	<130	<3

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 29...	--	68	0	142	7.6	19.5	8.6
NOV. 30...	8990	--	--	145	--	10.0	--
DEC. 01...	--	65	0	144	7.7	10.0	11.0
22...	--	45	0	102	6.8	11.0	9.4
JAN. 28...	--	39	0	89	6.8	9.5	11.0
FEB. 23...	15000	--	--	130	--	--	--
25...	--	47	0	97	7.3	7.5	9.7
APR. 05...	--	49	0	104	7.2	13.5	10.0
11...	11000	--	--	105	--	15.5	--
MAY 11...	--	60	0	114	7.3	21.0	7.6
22...	14100	--	--	95	--	22.0	--
JUNE 26...	--	55	0	112	7.6	24.0	8.9
JULY 14...	14200	--	--	--	--	27.5	--
AUG. 02...	--	--	--	141	6.7	28.0	4.0
30...	--	--	--	134	7.6	29.0	6.2

MOBILE RIVER BASIN

02400500 COOSA RIVER AT GADSDEN, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.0	20.5	10.0	10.0	11.0	11.0	---	---	11.5	11.5
2	---	---	21.0	20.5	10.0	10.0	11.0	11.0	---	---	11.5	11.5
3	---	---	21.0	20.5	10.0	9.5	11.0	11.0	---	---	12.0	11.5
4	---	---	21.0	20.5	9.5	9.0	11.0	11.0	---	---	12.0	11.5
5	---	---	20.5	19.5	9.0	9.0	11.0	11.0	---	---	12.0	12.0
6	---	---	19.5	19.5	9.0	9.0	11.0	10.5	---	---	12.0	12.0
7	---	---	19.5	18.5	9.0	8.5	10.5	10.0	---	---	12.0	12.0
8	---	---	18.5	17.5	9.0	8.5	10.0	10.0	---	---	12.0	12.0
9	---	---	17.5	16.0	9.0	9.0	10.0	9.5	---	---	12.0	12.0
10	---	---	16.0	16.0	9.0	9.0	9.5	9.5	---	---	12.0	12.0
11	---	---	16.0	15.5	9.0	9.0	9.5	9.5	---	---	12.0	12.0
12	---	---	15.5	15.0	9.5	9.0	9.5	9.5	---	---	12.5	12.0
13	---	---	15.0	15.0	10.0	9.5	9.5	9.5	---	---	13.0	12.5
14	---	---	15.0	15.0	10.5	10.0	9.5	9.5	---	---	13.0	13.0
15	---	---	15.0	15.0	11.5	10.5	---	---	---	---	13.5	13.0
16	---	---	15.0	15.0	12.0	11.5	---	---	---	---	14.0	13.5
17	---	---	15.0	15.0	12.0	12.0	---	---	---	---	14.0	14.0
18	---	---	15.0	15.0	12.0	12.0	---	---	---	---	14.5	14.0
19	---	---	15.0	15.0	12.0	12.0	---	---	---	---	14.5	14.5
20	---	---	15.0	15.0	12.0	12.0	---	---	---	---	15.0	14.5
21	21.0	21.0	15.0	15.0	12.0	12.0	---	---	---	---	15.0	15.0
22	21.0	21.0	15.0	14.5	12.0	12.0	---	---	---	---	15.5	15.0
23	21.0	21.0	14.5	13.5	12.0	11.5	---	---	9.5	9.0	15.5	15.5
24	21.0	21.0	13.5	12.5	11.5	11.5	---	---	9.5	9.0	15.5	15.5
25	21.0	21.0	12.5	12.0	11.5	11.0	---	---	9.5	9.5	15.5	15.0
26	21.0	21.0	12.0	12.0	11.0	11.0	---	---	10.0	9.5	15.5	15.0
27	21.0	21.0	12.0	12.0	11.0	11.0	---	---	10.0	10.0	15.0	15.0
28	21.0	21.0	12.0	11.5	11.0	11.0	---	---	11.5	10.0	15.0	15.0
29	21.0	20.5	11.5	11.5	11.0	11.0	---	---	11.5	11.5	15.0	15.0
30	21.0	20.5	11.5	10.0	11.0	11.0	---	---	---	---	15.0	15.0
31	21.0	20.5	---	---	11.0	11.0	---	---	---	---	15.0	15.0
MONTH	---	---	21.0	10.0	12.0	8.5	---	---	---	---	15.5	11.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	15.0	---	---	25.0	25.0	26.0	25.0	29.5	29.0	29.0	29.0
2	15.0	15.0	---	---	25.0	25.0	26.0	25.5	29.0	29.0	29.0	28.5
3	15.5	15.0	---	---	25.0	25.0	27.0	25.5	29.0	29.0	28.5	28.5
4	15.5	15.0	---	---	25.0	25.0	27.0	27.0	29.0	29.0	28.5	28.5
5	15.0	15.0	---	---	25.0	25.0	27.5	27.0	29.0	29.0	28.5	28.5
6	15.0	15.0	---	---	26.0	25.0	27.5	27.0	29.0	29.0	28.5	28.0
7	15.5	15.0	---	---	26.0	26.0	27.5	27.0	29.0	29.0	28.0	27.5
8	16.0	15.5	---	---	26.5	26.0	27.5	27.0	---	---	27.5	27.5
9	16.0	16.0	---	---	26.5	26.5	27.5	27.5	---	---	27.5	27.5
10	16.0	16.0	---	---	26.5	26.5	27.5	27.5	---	---	27.5	27.5
11	16.0	15.5	---	---	26.5	26.5	27.5	27.5	---	---	27.5	27.5
12	16.0	15.5	---	---	26.5	26.5	27.5	27.5	---	---	27.5	27.5
13	16.5	16.0	---	---	26.5	26.5	27.5	27.5	---	---	27.5	27.5
14	17.0	16.5	---	---	27.0	26.5	27.5	27.5	---	---	27.5	27.0
15	18.0	17.0	---	---	27.0	27.0	27.5	27.5	---	---	27.0	27.0
16	19.5	18.0	---	---	27.5	27.0	28.0	27.5	---	---	27.0	27.0
17	20.0	19.5	---	---	27.5	27.0	28.0	28.0	---	---	27.0	27.0
18	21.0	20.0	---	---	27.5	27.5	28.0	28.0	---	---	27.0	27.0
19	21.0	21.0	---	---	28.0	27.5	28.0	28.0	---	---	27.0	27.0
20	21.5	21.0	---	---	27.5	26.5	28.5	28.0	---	---	27.0	27.0
21	22.0	21.5	---	---	26.5	26.5	28.5	28.5	---	---	27.0	27.0
22	22.0	21.5	---	---	26.5	26.0	29.0	28.5	29.5	29.5	27.0	27.0
23	22.0	21.5	22.5	22.0	26.0	25.5	29.0	29.0	29.5	29.5	27.5	27.0
24	22.5	22.0	22.5	22.5	25.5	25.0	29.0	29.0	29.5	29.5	27.5	27.5
25	22.5	22.0	23.0	22.5	25.0	25.0	29.5	29.0	29.5	29.5	27.5	27.5
26	---	---	23.0	23.0	25.0	25.0	30.0	29.5	29.5	29.5	27.5	27.5
27	---	---	24.0	23.0	25.0	25.0	30.0	30.0	29.5	29.5	27.5	27.0
28	---	---	24.5	24.0	25.0	25.0	30.0	30.0	29.5	29.5	27.0	27.0
29	---	---	25.0	24.0	25.0	25.0	30.0	30.0	29.5	29.5	27.0	27.0
30	---	---	25.0	25.0	25.0	25.0	30.0	30.0	29.5	29.0	27.0	26.5
31	---	---	25.0	25.0	---	---	30.0	29.5	29.0	29.0	---	---
MONTH	22.5	15.0	---	---	28.0	25.0	30.0	25.0	---	---	29.0	26.5

02401390 BIG CANOE CREEK AT ASHVILLE, ALA.

LOCATION.--Lat 33°50'23", long 86°15'46", in SW¼SE¼ sec. 6, T. 14 S., R. 4 E., St. Clair County, at gaging station on downstream side of bridge on U.S. Highway 231, 0.5 mile west northwest of Ashville, and 1.7 miles downstream from Muckleroy Creek.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
20...	27	--	--	--	--	--	--	--	150	0	--	2.0
29...	33	6.5	50	30	38	8.3	2.1	1.5	150	0	4.6	2.6
DEC.												
01...	44	4.9	310	31	35	8.4	2.3	1.3	140	0	5.6	3.0
22...	343	6.4	70	33	21	3.5	1.8	1.4	70	0	7.2	2.8
JAN.												
28...	181	6.2	70	29	25	4.9	1.8	.9	90	0	7.4	2.8
FEB.												
25...	231	3.5	60	--	26	5.1	2.0	.6	94	0	3.8	8.6
APR.												
06...	233	2.1	50	29	27	5.3	2.3	.6	--	--	8.2	3.2
MAY												
10...	62	2.3	40	33	27	7.2	1.7	.8	--	--	4.4	2.2
JUNE												
26...	57	6.9	40	5	26	8.3	2.0	.7	--	--	4.4	2.6
AUG.												
03...	52	6.3	230	34	24	5.5	1.8	1.5	--	--	6.8	2.8
24...	27	--	--	--	--	--	--	--	126	0	--	2.6
30...	23	7.2	100	34	33	8.1	2.7	1.6	--	--	6.4	2.4

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
20...	--	--	--	--	--	100	0	--	243	7.8	20.0	--
29...	.1	.9	172	142	.23	129	6	.1	258	7.4	24.0	--
DEC.												
01...	.1	.05	--	132	.18	123	9	.1	--	7.0	--	2
22...	.2	.3	76	80	.11	67	10	.1	130	7.1	7.0	5
JAN.												
28...	.0	.05	112	93	.15	83	9	.1	159	7.3	9.0	--
FEB.												
25...	.1	.02	87	96	.12	86	9	.1	--	7.5	--	--
APR.												
06...	.1	.02	95	97	.13	90	10	.1	--	--	--	--
MAY												
10...	.1	.02	107	107	.15	97	0	.1	--	--	--	--
JUNE												
26...	.1	.1	116	118	.16	99	0	.1	--	--	--	--
AUG.												
03...	.1	.00	100	93	.14	77	5	.1	--	--	--	--
24...	--	--	--	--	--	116	13	--	--	7.7	--	--
30...	.1	.00	122	130	.17	120	7	.1	--	--	--	--

02401390 BIG CANOE CREEK AT ASHVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
20...	28	--	--	240	--	20.0	--
NOV.							
30...	32	--	--	--	--	8.0	--
DEC.							
01...	--	--	--	250	--	8.5	--
FEB.							
24...	210	--	--	160	--	--	--
25...	--	--	--	173	--	9.0	10.3
APR.							
06...	--	98	0	181	7.5	13.0	10.8
11...	224	--	--	160	--	--	--
MAY							
10...	--	124	0	205	7.7	17.5	8.4
23...	81	--	--	195	--	20.0	--
JUNE							
26...	--	134	0	228	7.6	21.0	7.4
JULY							
12...	29	--	--	225	--	23.0	--
AUG.							
03...	--	88	0	166	7.5	25.0	7.1
24...	27	--	--	225	--	24.5	--
30...	--	138	0	240	7.8	24.0	6.6

02407000 COOSA RIVER AT CHILDERSBURG, ALA.

LOCATION.--Lat 33°17'30", long 86°21'50", in NE¼ sec. 18, T. 20 S., R. 3 E., Shelby County, at gaging station near right bank on downstream side of Central of Georgia Railway bridge, 700 ft upstream from bridge on State Highway 38, 0.5 mile downstream from Tallaseehatchee Creek, 1 mile northwest of Childersburg, and at mile 86.3.

DRAINAGE AREA.--8,390 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-68 (partial-record station), August 1969 to September 1972.
Water temperatures: October 1962 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 29.0°C Oct. 1-5; minimum, 8.0°C on several days during January and February.

Period of record:
Water temperatures: Maximum, 36.0°C July 6, 1969; minimum, 3.0°C Jan. 28-30, 1963.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. Streamflow regulated by upstream reservoirs and hydroelectric plants. No temperature data Dec. 2 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.									
29...	11000	3.1	160	70	15	5.4	8.4	1.9	7.2
DEC.									
02...	25000	4.8	80	10	17	5.7	10	1.9	10
21...	20100	6.4	100	70	12	3.6	7.6	1.8	9.0
JAN.									
26...	31000	6.1	390	40	9.1	2.9	3.3	1.5	9.0
FEB.									
25...	20700	6.0	100	40	13	4.2	4.1	1.4	7.0
APR.									
04...	18600	6.0	70	30	15	5.3	5.1	1.1	7.2
MAY									
11...	21000	.6	20	30	14	4.5	4.4	1.0	8.2
JUNE									
22...	500	4.4	--	53	15	5.9	8.1	1.4	8.2
AUG.									
02...	450	--	--	--	--	--	--	--	--
30...	21600	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.								
29...	7.2	.1	--	.3	--	--	--	84
DEC.								
02...	9.6	.1	--	.3	--	--	120	108
21...	7.4	.1	--	.02	--	--	70	76
JAN.								
26...	3.2	.1	--	.09	--	--	56	54
FEB.								
25...	3.6	.1	--	.3	--	--	87	68
APR.								
04...	4.7	.0	--	.4	--	--	86	79
MAY								
11...	3.6	.0	--	.05	--	--	70	68
JUNE								
22...	8.0	.2	--	.1	--	--	92	86
AUG.								
02...	--	--	.39	--	.2	.090	--	--
30...	--	--	--	--	.07	.070	--	--

02407000 COOSA RIVER AT CHILDERSBURG, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT. 29...	.12	60	1	.5	--	--	--	50	--
DEC. 02...	.16	66	1	.5	--	--	--	150	--
21...	.10	45	1	.5	--	--	--	110	--
JAN. 26...	.08	37	7	.2	--	--	--	--	--
FEB. 25...	.12	50	6	.3	--	--	--	--	--
APR. 04...	.12	60	5	.3	--	--	--	20	--
MAY 11...	.10	54	2	.3	--	--	--	10	--
JUNE 22...	.13	62	5	.4	--	--	--	60	--
AUG. 02...	--	--	--	--	19	100	4200	--	<10
30...	--	--	--	--	18	60	330	--	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 29...	72	0	161	7.3	22.0	6.8
DEC. 02...	80	0	178	7.7	11.5	9.1
21...	54	0	141	7.0	13.0	8.9
JAN. 26...	37	0	96	7.0	10.0	9.7
FEB. 25...	54	0	132	7.0	9.5	11.2
APR. 04...	68	0	140	7.0	14.5	9.1
MAY 11...	64	0	130	7.6	22.0	6.9
JUNE 22...	70	0	152	7.3	24.0	4.8
AUG. 02...	--	--	205	7.3	27.0	4.1
30...	--	--	176	7.5	28.5	5.6

02407000 COOSA RIVER AT CHILDERSBURG, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	29.0	28.5	21.0	20.5	10.5	10.0	10.5	10.5	9.5	9.5	9.5	9.0
2	29.0	28.5	21.0	21.0	---	---	10.5	10.5	9.5	9.0	10.0	9.5
3	29.0	28.5	21.0	20.5	10.0	9.5	10.5	10.5	9.0	9.0	9.5	9.5
4	29.0	28.5	20.5	20.5	9.5	9.0	10.5	10.5	9.0	9.0	10.0	9.5
5	29.0	28.5	20.5	19.5	9.5	9.5	10.5	10.0	9.0	9.0	10.5	10.0
6	28.5	27.5	19.5	19.5	9.5	9.5	10.0	9.5	9.0	8.5	11.0	10.5
7	28.0	27.5	19.5	19.0	9.5	9.0	9.5	9.0	8.5	8.5	11.0	11.0
8	27.5	27.5	19.0	18.5	9.0	9.0	9.0	9.0	8.5	8.5	11.0	11.0
9	27.5	27.0	18.5	18.5	9.0	9.0	9.0	9.0	8.5	8.0	11.0	11.0
10	27.0	27.0	18.5	17.0	9.0	9.0	9.0	9.0	8.0	8.0	11.0	11.0
11	27.0	25.0	17.0	17.0	9.0	9.0	9.0	9.0	8.0	8.0	11.5	11.0
12	25.5	25.0	17.0	16.5	9.0	9.0	9.0	9.0	8.5	8.0	11.5	11.0
13	25.0	24.5	16.5	16.5	9.5	9.0	9.5	9.0	8.5	8.0	12.0	11.5
14	25.5	25.0	16.5	16.5	9.5	9.5	9.5	9.5	8.5	8.0	12.5	12.0
15	26.0	25.5	16.5	15.5	10.0	9.5	9.5	9.5	8.0	8.0	13.0	12.5
16	25.5	25.0	15.5	15.5	10.0	10.0	9.5	9.0	8.5	8.0	13.0	12.5
17	25.0	24.5	15.5	15.5	10.5	10.0	9.0	8.5	8.5	8.5	13.0	13.0
18	25.0	24.5	15.5	15.5	10.5	10.5	8.5	8.5	8.5	8.0	13.0	13.0
19	24.5	24.5	15.5	15.5	10.5	10.5	8.5	8.5	8.0	8.0	13.5	13.0
20	24.5	24.0	15.5	15.5	10.5	10.5	8.5	8.5	8.0	8.0	13.5	13.5
21	24.0	23.5	15.5	16.0	10.5	10.5	8.5	8.0	8.5	8.0	14.0	13.5
22	23.5	23.0	16.0	13.5	10.5	10.5	8.0	8.0	8.5	8.5	14.5	14.0
23	23.0	23.0	13.5	13.5	10.5	10.5	8.5	8.0	8.5	8.5	14.5	14.5
24	23.0	23.0	13.5	13.0	10.5	10.5	8.5	8.5	9.0	8.5	14.5	14.5
25	23.0	23.0	13.0	12.5	10.5	10.5	8.5	8.5	9.0	9.0	14.5	14.5
26	23.0	21.5	12.5	12.0	10.5	10.5	8.5	8.5	9.0	9.0	14.5	14.5
27	22.0	22.0	12.0	11.5	10.5	10.5	9.0	8.5	9.0	9.0	14.5	14.5
28	22.0	22.0	11.5	11.5	10.5	10.5	9.0	9.0	9.0	9.0	15.0	14.5
29	22.0	22.0	11.5	11.0	10.5	10.5	9.0	9.0	9.0	9.0	15.5	15.0
30	22.0	22.0	11.0	10.5	10.5	10.5	9.5	9.0	---	---	15.5	15.5
31	22.0	20.5	---	---	10.5	10.5	9.5	9.5	---	---	15.5	15.5
MONTH	29.0	20.5	21.0	10.5	10.5	9.0	10.5	8.0	9.5	8.0	15.5	9.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	15.5	20.5	20.0	23.5	23.5	24.5	24.5	26.0	26.0	26.5	26.0
2	15.5	15.5	20.5	20.5	24.0	23.5	24.5	24.5	26.5	26.0	26.5	26.0
3	15.5	15.5	20.5	20.5	24.0	23.5	24.5	24.5	27.0	26.5	26.5	26.0
4	15.5	15.5	20.5	20.5	24.0	23.5	24.5	24.5	27.0	27.0	26.5	26.5
5	16.0	15.5	20.5	20.5	24.0	24.0	24.5	24.0	27.0	27.0	26.5	26.0
6	16.5	16.0	21.0	20.5	24.0	24.0	25.0	24.5	27.5	27.0	26.0	26.0
7	16.5	16.5	21.0	20.5	24.5	24.0	25.5	25.0	27.5	27.0	26.5	26.0
8	16.5	16.5	20.5	20.5	24.5	24.5	25.5	25.5	27.5	27.0	26.5	26.5
9	17.0	16.5	21.0	20.5	24.5	24.5	25.5	25.5	27.5	27.0	26.5	26.5
10	17.0	17.0	21.0	21.0	24.5	24.5	25.5	25.5	27.5	26.5	26.5	26.5
11	17.0	17.0	21.0	21.0	24.5	24.5	26.0	25.5	27.0	26.5	26.5	26.5
12	17.0	17.0	21.0	21.0	24.5	24.0	26.0	26.0	27.0	27.0	26.5	26.5
13	17.5	17.0	21.0	20.5	24.0	24.0	26.0	26.0	27.0	27.0	26.5	26.0
14	18.0	17.5	21.0	20.5	24.5	24.0	26.0	26.0	27.5	27.0	26.0	25.5
15	18.5	18.0	21.0	21.0	24.5	24.5	26.0	25.5	28.0	27.5	25.5	25.5
16	19.5	18.5	21.0	21.0	24.5	24.5	25.5	25.5	28.0	28.0	25.5	25.5
17	19.5	19.0	21.0	21.0	25.0	24.5	26.0	25.5	28.0	27.5	25.5	25.5
18	19.5	19.5	21.0	21.0	24.5	24.5	26.0	26.0	28.0	28.0	25.5	25.0
19	19.5	19.5	21.0	21.0	24.5	24.5	26.5	26.0	28.0	28.0	25.0	24.5
20	20.0	19.5	21.0	21.0	24.5	24.0	26.5	26.0	28.0	27.5	25.5	25.0
21	20.0	20.0	21.0	21.0	24.5	24.0	26.5	26.0	27.5	27.0	25.5	25.5
22	20.5	20.0	21.5	21.0	24.5	24.0	27.0	26.5	27.0	26.5	25.5	25.0
23	20.5	20.5	21.5	21.5	24.5	24.5	26.5	26.5	27.0	26.5	25.0	25.0
24	20.5	20.0	22.5	21.5	24.5	24.5	27.0	26.5	27.0	26.5	25.0	25.0
25	21.0	20.0	22.5	22.5	24.5	24.0	27.0	26.5	27.0	26.5	25.0	25.0
26	20.5	20.0	23.0	22.5	24.0	24.0	26.5	26.5	27.0	26.5	25.0	25.0
27	20.5	20.0	23.0	22.5	24.0	24.0	26.5	26.5	27.0	26.5	25.0	24.5
28	20.5	20.0	23.0	23.0	24.0	24.0	26.5	26.5	27.0	26.5	24.5	24.0
29	20.5	20.0	23.0	22.5	24.0	24.0	26.5	26.5	27.0	27.0	24.0	24.0
30	20.0	20.0	23.0	22.5	24.5	24.0	26.5	26.5	27.0	26.5	24.0	23.5
31	---	---	23.5	23.0	---	---	26.5	26.0	26.5	26.5	---	---
MONTH	21.0	15.5	23.5	20.0	25.0	23.5	27.0	24.0	28.0	26.0	26.5	23.5

02408000 HATCHET CREEK NEAR ROCKFORD, ALA.

LOCATION.--Lat 32°56'42", long 86°13'06", in NW¼ sec. 31, T. 23 N., R. 19 E., Coosa County, at gaging station near left bank on downstream side of county road bridge, 1 mile downstream from U.S. Highway 231, 1.5 miles downstream from Socapatoy Creek, and 4 miles north of Rockford.

DRAINAGE AREA.--203 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
26...	127	14	390	34	4.3	1.4	2.7	1.5	24	0	.4	2.2
DEC.												
02...	134	14	300	27	2.8	1.3	2.5	1.3	18	0	1.6	2.0
21...	73	11	110	35	4.5	1.3	1.9	.9	16	0	5.6	1.6
JAN.												
25...	400	11	30	12	2.0	.9	1.9	.7	11	0	2.0	1.6
FEB.												
24...	430	10	130	8	1.9	.9	1.9	.6	10	0	3.4	1.6
APR.												
04...	480	11	190	10	1.9	1.1	2.1	.5	12	0	2.0	1.6
MAY												
10...	340	12	170	21	2.2	1.0	2.3	.7	--	--	1.6	1.8
JUNE												
21...	203	12	240	20	3.6	1.1	2.4	.6	--	--	2.4	2.1
AUG.												
01...	180	11	350	30	3.5	1.1	2.7	.8	--	--	3.6	2.8
29...	98	12	450	21	3.4	1.3	2.7	1.1	--	--	3.0	1.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
26...	.0	.02	--	39	.05	17	0	.3	48	7.2	19.0	5
DEC.												
02...	.0	.02	--	35	.05	13	0	.2	36	7.1	8.5	5
21...	.0	.05	35	35	.05	17	4	.2	35	6.6	13.5	5
JAN.												
25...	.0	.02	23	26	.03	8	0	.3	34	7.2	15.0	--
FEB.												
24...	.1	.02	23	26	.03	8	0	.3	--	6.7	--	--
APR.												
04...	.1	.00	23	25	.03	9	0	.3	--	--	--	--
MAY												
10...	.1	.00	24	30	.03	10	0	.3	--	--	--	--
JUNE												
21...	.1	.1	33	33	.04	14	0	.3	--	--	--	--
AUG.												
01...	.1	.00	37	32	.05	13	0	.3	--	--	--	--
29...	.1	.00	34	35	.05	14	0	.3	--	--	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
21...	92	--	--	--	--	18.0	--
FEB.							
24...	--	--	--	31	--	11.0	11.6
APR.							
04...	--	13	0	29	6.0	14.0	11.2
MAY							
01...	279	--	--	40	--	18.0	--
10...	--	16	0	34	7.5	21.5	8.3
JUNE							
12...	130	--	--	40	--	23.0	--
21...	--	17	0	36	7.4	25.5	9.0
AUG.							
01...	--	15	0	39	7.1	26.0	9.1
04...	121	--	--	--	--	24.5	--
29...	--	20	0	44	7.5	--	8.0
SEP.							
05...	50	--	--	40	--	24.0	--

02411000 COOSA RIVER AT JORDAN DAM NEAR WETUMPKA, ALA.

LOCATION.--Lat 32°36'30", long 86°15'18", in SE¼ sec. 22, T. 19 N., R. 18 E., Elmore County, at gaging station on right bank 0.5 mile downstream from Jordan Dam, 4 miles upstream from Coon Creek, 5.5 miles northeast of Wetumpka, and at mile 18.6.

DRAINAGE AREA.--10,200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1972.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JAN.												
26...	12000	5.7	170	23	7.7	2.2	2.1	1.4	29	0	8.4	2.4
FEB.												
23...	24300	6.8	100	12	11	3.5	3.7	1.1	44	0	8.4	3.6
APR.												
03...	25500	4.7	110	4	13	3.5	4.2	1.4	--	--	6.6	4.8
MAY												
09...	12400	1.4	0	62	12	2.9	4.2	1.0	--	--	6.8	4.4
JUNE												
21...	4520	3.2	10	9	13	4.5	5.6	1.2	--	--	7.2	5.2
AUG.												
02...	8400	1.6	40	10	14	3.9	6.2	1.3	--	--	8.0	5.8
29...	1580	2.1	160	6	13	4.4	6.6	1.6	--	--	7.8	6.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JAN.											
26...	.0	.05	39	44	.05	28	4	.2	70	7.0	9.0
FEB.											
23...	.1	.02	61	62	.08	42	6	.2	--	6.9	--
APR.											
03...	.1	.02	69	63	.09	47	5	.3	--	--	--
MAY											
09...	.1	.02	63	58	.09	42	0	.3	--	--	--
JUNE											
21...	.1	.05	68	70	.09	51	2	.3	--	--	--
AUG.											
02...	.2	.00	71	69	.10	51	5	.4	--	--	--
29...	.1	.00	73	71	.10	51	3	.4	--	--	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB.						
23...	--	--	112	--	9.5	11.6
APR.						
03...	52	0	128	7.5	15.5	10.4
MAY						
09...	52	0	120	7.2	20.0	7.2
JUNE						
21...	60	0	131	7.5	26.0	7.2
AUG.						
02...	56	0	132	7.4	28.0	6.8
29...	58	0	142	7.6	29.0	6.3

02412000 TALLAPOOSA RIVER NEAR HEFLIN, ALA.

LOCATION.--Lat 33°37'22", long 85°31'20", in NW¼ sec. 20, T. 16 S., R. 11 E., Cleburne County, at gaging station on right bank 5 ft downstream from county road bridge, 2.2 miles upstream from Cane Creek, 4 miles southeast of Heflin, and at mile 186.6.

DRAINAGE AREA.--446 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1963-66, 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.									
28...	239	6.4	210	50	2.5	1.4	2.4	1.3	1.4
DEC.									
01...	252	11	260	20	2.9	1.2	2.5	1.0	.4
21...	674	10	430	40	2.5	1.1	2.3	.7	.8
JAN.									
27...	653	10	280	90	2.4	1.1	2.1	.7	2.2
FEB.									
24...	762	9.0	220	20	2.8	.9	2.0	.8	.8
APR.									
05...	725	8.8	170	40	1.8	1.0	2.2	.5	1.0
MAY									
11...	642	8.1	300	0	2.1	1.0	2.0	.6	2.2
JUNE									
22...	835	8.2	170	11	2.4	1.0	1.9	.9	2.4
AUG.									
02...	403	--	--	--	--	--	--	--	--
29...	178	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.								
28...	2.0	.1	--	.1	--	--	26	26
DEC.								
01...	2.0	.0	--	.05	--	--	31	29
21...	1.6	.1	--	.1	--	--	36	37
JAN.								
27...	1.6	.1	--	.02	--	--	24	26
FEB.								
24...	1.6	.1	--	.1	--	--	25	25
APR.								
05...	1.4	.0	--	.07	--	--	22	24
MAY								
11...	1.6	.0	--	.2	--	--	31	26
JUNE								
22...	1.4	.1	--	.2	--	--	20	25
AUG.								
02...	--	--	.35	--	.3	.080	--	--
29...	--	--	--	--	.1	.020	--	--

02412000 TALLAPOOSA RIVER NEAR HEFLIN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT.								
28...	.04	12	0	.3	--	--	--	--
DEC.								
01...	.04	12	0	.3	--	89	540	--
21...	.05	11	0	.3	--	720	1300	--
JAN.								
27...	.03	11	1	.3	--	88	3000	--
FEB.								
24...	.03	11	1	.3	--	--	440	--
APR.								
05...	.03	9	0	.3	--	--	560	--
MAY								
11...	.04	9	0	.3	--	--	100	--
JUNE								
22...	.03	10	0	.3	--	--	1100	--
AUG.								
02...	--	--	--	--	22	310	8600	<10
29...	--	--	--	--	4	31	360	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
28...	--	17	0	40	6.4	17.5	8.5
NOV.							
29...	238	--	--	--	--	9.5	--
DEC.							
01...	--	17	0	40	6.9	7.0	12.6
21...	--	14	0	38	6.9	12.0	9.7
JAN.							
06...	8520	--	--	--	--	6.0	--
27...	--	12	0	35	6.8	9.0	10.8
FEB.							
23...	771	--	--	35	--	9.0	--
24...	--	12	0	31	6.6	8.5	13.8
APR.							
05...	--	14	0	30	6.8	11.5	12.8
12...	794	--	--	32	--	17.0	--
MAY							
11...	--	14	0	32	6.9	18.0	7.3
24...	515	--	--	35	--	19.0	--
JUNE							
22...	--	12	0	29	6.9	20.0	8.4
AUG.							
02..	--	--	--	32	7.1	23.5	8.0
29...	--	--	--	36	7.0	23.5	7.6
SEP.							
06...	141	--	--	40	--	21.0	--

02414500 TALLAPOOSA RIVER AT WADLEY, ALA.

LOCATION.--Lat 33°07'00", long 85°33'39", in SW¼ sec. 12, T. 22 S., R. 10 E., Randolph County, at gaging station on left bank 50 ft upstream from bridge on State Highway 22, 1 mile downstream from Beaver Dam Creek, and at mile 125.3.

DRAINAGE AREA.--1,660 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968-1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 28...	789	5.8	340	20	2.5	1.3	3.0	1.3	2.4
DEC. 02...	1180	9.3	360	10	2.1	1.2	3.0	1.3	2.8
21...	2970	8.6	270	20	2.2	1.1	2.2	1.0	.6
JAN. 27...	2960	9.2	230	30	2.2	1.0	2.1	.7	2.4
FEB. 24...	3770	8.0	170	20	1.9	1.0	2.0	.8	1.0
APR. 05...	3270	8.5	230	30	1.6	1.0	2.2	.6	1.2
MAY 11...	1830	6.3	100	20	1.6	1.0	2.2	.6	2.8
JUNE 22...	3560	4.0	80	16	2.0	.9	2.1	1.1	1.6
AUG. 02...	1920	--	--	--	--	--	--	--	--
29...	400	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 28...	2.4	.1	--	--	--	--	26	26
DEC. 02...	2.8	.0	--	--	--	--	32	30
21...	2.6	.1	--	2.0	--	--	37	25
JAN. 27...	1.6	.1	--	.02	--	--	22	25
FEB. 24...	1.8	.1	--	.2	--	--	26	23
APR. 05...	1.6	.0	--	.07	--	--	23	22
MAY 11...	2.0	.0	--	.1	--	--	24	24
JUNE 22...	1.2	.1	--	.3	--	--	21	19
AUG. 02...	--	--	.27	--	.5	.070	--	--
29...	--	--	--	--	.1	.050	--	--

02414500 TALLAPOOSA RIVER AT WADLEY, ALA.--Continued

CHEMICAL ANALYSES, OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT.								
28...	.04	12	0	.4	--	--	--	--
DEC.								
02...	.04	10	0	.4	--	110	900	--
21...	.05	10	0	.3	--	150	810	--
JAN.								
27...	.03	10	0	.3	--	27	360	--
FEB.								
24...	.04	9	0	.3	--	--	490	--
APR.								
05...	.03	8	0	.3	--	--	470	--
MAY								
11...	.03	8	0	.3	--	--	730	--
JUNE								
22...	.03	9	1	.3	--	--	2900	--
AUG.								
02...	--	--	--	--	12	53	8000	<10
29...	--	--	--	--	10	400	2200	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
28...	--	15	0	39	7.0	19.5	9.3
DEC.							
02...	--	14	0	40	6.7	7.0	11.6
21...	--	13	0	37	6.6	13.0	9.9
JAN.							
18...	4560	--	--	40	--	5.0	--
27...	--	12	0	32	7.3	11.5	9.9
FEB.							
24...	--	11	0	31	6.9	10.0	13.6
APR.							
05...	--	11	0	28	6.9	14.0	10.6
MAY							
04...	2040	--	--	--	--	18.0	--
11...	--	14	0	30	7.9	21.0	10.0
JUNE							
12...	1090	--	--	40	--	23.0	--
22...	--	10	0	30	6.7	21.0	7.5
AUG.							
02...	--	--	--	36	7.1	25.0	8.3
29...	--	--	--	35	7.6	27.0	8.7
SEP.							
07...	496	--	--	40	--	--	--

02418500 TALLAPOOSA RIVER BELOW TALLASSEE, ALA.

LOCATION.--Lat 32°30'45", long 85°53'21", in E½ sec. 30, T. 18 N., R. 22 E., Tallapoosa County, at gaging station on left bank, 1.5 miles downstream from Benjamin Fitzpatrick Highway bridge and Thurlow Dam at Tallassee, 3.5 miles upstream from Uphapee Creek, and at mile 48.1.

DRAINAGE AREA.--3,320 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 28...	4140	5.5	200	70	2.2	1.2	4.1	1.2	1.2
NOV. 30...	7930	9.3	130	70	2.2	1.1	3.8	1.0	.4
DEC. 20...	7950	11	80	10	2.2	1.2	3.7	1.1	.4
JAN. 26...	10500	8.1	130	30	1.8	1.0	2.8	1.4	3.6
FEB. 23...	10500	7.3	210	40	2.8	.6	2.7	1.6	4.4
APR. 04...	5790	8.9	120	30	1.6	1.0	2.8	1.1	2.8
MAY 09...	3510	6.3	70	20	3.6	1.1	3.0	1.0	3.8
JUNE 21...	4310	7.2	0	34	2.8	1.2	3.1	1.0	1.8
AUG. 04...	7700	--	--	--	--	--	--	--	--
28...	7700	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 28...	2.4	.1	--	.5	--	--	38	27
NOV. 30...	2.8	.1	--	.3	--	--	33	31
DEC. 20...	2.2	.1	--	.02	--	--	39	31
JAN. 26...	2.0	.1	--	.07	--	--	23	26
FEB. 23...	2.6	.1	--	.1	--	--	29	28
APR. 04...	1.8	.0	--	.3	--	--	22	28
MAY 09...	2.4	.1	--	.2	--	--	31	30
JUNE 21...	2.2	.1	--	.2	--	--	28	28
AUG. 04...	--	--	.02	--	.2	.020	--	--
28...	--	--	--	--	.2	.000	--	--

02418500 TALLAPOOSA RIVER BELOW TALLASSEE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT. 28...	.05	11	0	.6	--	--	--	--
NOV. 30...	.04	10	0	.5	--	19	140	--
DEC. 20...	.05	11	0	.5	--	34	160	--
JAN. 26...	.03	9	0	.4	--	45	2100	--
FEB. 23...	.04	10	2	.4	--	--	54	--
APR. 04...	.03	8	0	.4	--	--	150	--
MAY 09...	.04	14	1	.4	--	--	20	--
JUNE 21...	.04	12	0	.4	--	--	700	--
AUG. 04...	--	--	--	--	24	110	2000	<10
28...	--	--	--	--	7	16	1500	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 28...	18	0	46	6.8	21.0	8.3
NOV. 30...	18	0	44	7.2	14.5	9.7
DEC. 20...	16	0	47	6.8	13.5	9.3
JAN. 26...	11	0	38	6.6	11.0	11.0
FEB. 23...	10	0	34	6.5	10.0	11.0
APR. 04...	14	0	38	6.8	12.5	10.1
MAY 09...	16	0	40	6.9	17.5	9.1
JUNE 21...	16	0	39	7.0	21.0	8.9
AUG. 04...	--	--	44	6.9	21.0	6.6
28...	--	--	40	6.9	23.5	7.0

02419000 UPHAPEE CREEK NEAR TUSKEGEE, ALA.

LOCATION.--Lat 32°28'36", long 85°41'42", on east line of sec. 12, T. 17 N., R. 23 E., Macon County, at gaging station on left bank at downstream side of bridge on State Highway 81, 1 mile upstream from Red Creek, 1.2 miles upstream from bridge on Western Railway of Alabama, and 4 miles north of Tuskegee.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
29...	92	8.8	400	40	8.6	3.9	6.0	2.9	44	0	4.8	6.4
NOV.												
30...	156	2.8	270	30	4.8	2.5	3.7	2.7	30	0	2.8	5.4
DEC.												
20...	462	6.1	230	40	3.9	1.7	3.0	2.2	18	0	3.8	4.0
JAN.												
25...	399	8.8	400	45	5.9	1.8	2.9	1.2	16	0	6.8	6.4
FEB.												
22...	543	5.3	180	8	4.7	1.7	2.7	1.1	18	0	5.6	4.2
APR.												
03...	297	5.5	400	13	6.2	2.0	2.9	1.6	--	--	4.2	4.4
MAY												
12...	172	7.9	390	20	5.8	1.6	3.5	2.0	--	--	2.4	4.4
JUNE												
21...	310	6.9	300	41	5.4	2.9	3.6	1.6	--	--	5.2	4.4
AUG.												
01...	1750	6.7	280	67	3.8	1.2	2.4	1.6	--	--	4.8	3.2
28...	38	7.2	160	92	9.3	4.7	5.2	2.4	--	--	4.0	5.2
SEP.												
07...	25	--	--	--	--	--	--	--	50	0	--	5.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
29...	.1	.05	70	64	.10	38	2	.4	103	6.5	23.0	--
NOV.												
30...	.1	.02	42	40	.06	23	0	.3	78	6.7	11.5	8
DEC.												
20...	.2	.5	47	36	.06	17	2	.3	52	6.6	8.5	7
JAN.												
25...	.0	.05	36	42	.05	22	9	.3	60	6.3	9.0	--
FEB.												
22...	.1	.00	40	34	.05	19	4	.3	--	6.9	--	--
APR.												
03...	.1	.02	45	39	.06	24	4	.3	--	--	--	--
MAY												
12...	.1	.05	41	43	.06	21	0	.3	--	--	--	--
JUNE												
21...	.2	.02	48	43	.07	26	4	.3	--	--	--	--
AUG.												
01...	.1	.05	42	30	.06	15	5	.3	--	--	--	--
28...	.1	.00	63	61	.09	43	6	.3	139	--	--	--
SEP.												
07...	--	--	--	--	--	44	3	--	97	6.9	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
DEC.							
03...	602	--	--	60	--	7.0	--
FEB.							
22...	--	--	--	58	--	11.0	11.1
APR.							
03...	--	25	0	70	7.2	17.5	10.5
MAY							
12...	--	31	0	76	7.3	22.5	8.9
JUNE							
21...	--	27	0	76	7.0	23.0	7.9
AUG.							
01...	--	12	0	42	6.6	24.0	7.2
28...	--	46	3	--	8.7	29.5	9.6

02420000 ALABAMA RIVER NEAR MONTGOMERY, ALA.

LOCATION.--Lat 32°24'41", long 86°24'30", in NW¼ sec. 31, T. 17 N., R. 17 E., Montgomery County, at bridge on U.S. Highway 31, 4 miles upstream from Autauga Creek, 6 miles northwest of Montgomery, and at mile 287.6.

DRAINAGE AREA.--15,100 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 26...	5320	4.2	90	20	9.2	3.3	5.4	1.5	5.6
NOV. 30...	22000	6.7	30	10	12	4.0	6.5	1.7	6.2
DEC. 20...	37100	5.8	80	10	11	3.6	7.1	1.7	7.6
JAN. 25...	62000	6.3	130	10	6.6	2.0	2.6	1.6	6.4
FEB. 23...	24000	7.4	120	20	8.5	2.7	3.4	1.5	5.8
APR. 03...	36000	5.7	150	40	12	3.2	4.3	1.3	5.8
MAY 12...	20500	1.1	230	50	10	3.2	4.2	1.1	3.8
JUNE 20...	1000	7.7	0	42	8.5	3.2	4.8	1.2	6.4
AUG. 04...	19900	--	--	--	--	--	--	--	--
SEP. 01...	14800	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 26...	4.4	.1	--	.3	--	--	50	56
NOV. 30...	6.5	.1	--	.3	--	--	74	73
DEC. 20...	7.0	.1	--	.2	--	--	64	70
JAN. 25...	2.4	.1	--	.05	--	--	42	41
FEB. 23...	3.3	.1	--	.2	--	--	50	52
APR. 03...	3.2	.1	--	.4	--	--	65	59
MAY 12...	3.8	.1	--	.07	--	--	52	52
JUNE 20...	4.2	.1	--	.07	--	--	63	55
AUG. 04...	--	--	.28	--	.2	.11	--	--
SEP. 01...	--	--	--	--	.07	.030	--	--

02420000 ALABAMA RIVER NEAR MONTGOMERY, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT. 26...	.07	37	2	.4	--	--	--	--
NOV. 30...	.10	47	1	.4	--	--	--	--
DEC. 20...	.09	43	1	.5	--	--	--	--
JAN. 25...	.06	25	4	.2	--	--	--	--
FEB. 23...	.07	32	3	.3	--	--	--	--
APR. 03...	.09	43	7	.3	--	--	--	--
MAY 12...	.07	38	0	.3	--	--	--	--
JUNE 20...	.09	34	3	.4	--	--	--	--
AUG. 04...	--	--	--	--	36	2800	17000	<10
SEP. 01...	--	--	--	--	11	300	3900	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 26...	43	0	101	7.1	22.0	8.6
NOV. 30...	56	0	120	7.6	13.0	9.6
DEC. 20...	51	0	128	7.2	15.0	9.8
JAN. 25...	26	0	67	6.4	10.5	11.4
FEB. 23...	36	0	86	7.4	10.0	11.1
APR. 03...	44	0	102	7.2	15.5	9.4
MAY 12...	48	0	105	7.2	20.0	8.6
JUNE 20...	38	0	89	7.1	24.0	6.6
AUG. 04...	--	--	65	7.2	26.5	6.7
SEP. 01...	--	--	107	7.1	27.0	6.1

02421000 CATOMA CREEK NEAR MONTGOMERY, ALA.

LOCATION.--Lat 32°18'20", long 86°17'58", in center sec. 6, T. 15 N., R. 18 E., Montgomery County, at gaging station on right bank on Downstream side of bridge on U.S. Highway 331, 5 miles south of Montgomery.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1971.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
JAN. 25...	203	8.5	240	28	31	1.6	4.2	2.3	86	0	15	7.2
FEB. 22...	74	7.4	40	12	32	1.8	5.4	1.6	84	0	18	9.6
APR. 03...	42	3.6	330	50	41	2.3	6.2	1.3	--	--	16	10
MAY 12...	36	3.6	190	69	38	1.6	6.3	3.2	--	--	6.4	13
JUNE 20...	47	4.0	150	29	37	1.1	4.9	3.1	--	--	23	8.8
AUG. 01...	47	7.6	100	50	35	1.4	4.0	4.3	--	--	12	6.0
SEP. 01...	41	2.8	110	71	46	1.7	5.0	3.4	--	--	12	7.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JAN. 25...	.1	.09	126	112	.17	84	14	.2	188	7.1	10.0
FEB. 22...	.2	.02	126	117	.17	88	19	.3	--	7.1	--
APR. 03...	.2	.00	143	133	.19	110	24	.3	--	--	--
MAY 12...	.3	.05	--	128	.17	100	8	.3	--	--	--
JUNE 20...	.3	.02	135	126	.18	97	24	.2	--	--	--
AUG. 01...	.2	.8	--	125	.17	94	10	.2	--	--	--
SEP. 01...	.2	.00	158	151	.21	120	1	.2	--	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB. 22...	--	--	--	215	--	11.0	9.1
APR. 03...	--	105	0	255	7.6	16.0	10.5
MAY 12...	--	112	0	280	7.5	21.5	6.6
JUNE 15...	34	--	--	230	--	25.0	--
20...	--	90	0	242	7.6	22.5	6.7
AUG. 01...	--	103	0	218	7.5	25.0	5.6
SEP. 01...	--	146	0	268	7.7	27.0	6.2

02422000 BIG SWAMP CREEK NEAR LOWNDESBORO, ALA.

LOCATION.--Lat 32°16'00", long 86°41'40", in NE¼ sec. 19, T. 15 N., R. 14 E., Lowndes County, at gaging station on right bank at upstream side of bridge on U.S. Highway 80, 1 mile downstream from Panther Creek, 5 miles west of Lowndesboro, and 12 miles upstream from mouth.

DRAINAGE AREA.--247 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 04...	.90	6.5	230	30	49	2.3	4.9	4.7	155	0	7.0
NOV. 03...	.50	7.1	440	73	32	2.0	4.9	3.6	100	0	2.8
DEC. 07...	386	6.2	150	39	31	1.4	2.1	3.8	80	0	19
FEB. 11...	234	7.0	80	28	43	1.8	3.8	1.7	118	0	18
MAR. 27...	39	4.3	80	12	70	2.7	7.0	1.5	--	--	30
APR. 24...	328	5.2	170	11	34	1.8	3.9	2.8	--	--	20
JUNE 05...	1.6	2.9	20	24	61	3.0	6.4	2.4	--	--	16
JULY 18...	7.8	7.4	60	25	62	2.8	5.1	2.8	--	--	15
AUG. 15...	2.7	7.2	10	28	49	1.9	4.3	3.6	--	--	12
SEP. 19...	1.0	4.3	90	70	49	2.4	7.0	5.1	--	--	4.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 04...	8.0	.1	.00	203	158	.28	132	5	.2	7.3	--
NOV. 03...	11	.1	.02	115	113	.16	88	6	.2	7.3	12
DEC. 07...	4.0	.4	.2	--	108	.15	84	19	.1	7.3	45
FEB. 11...	5.6	.3	.05	148	139	.20	115	19	.2	7.5	--
MAR. 27...	10	.3	.00	221	221	.30	190	31	.2	--	--
APR. 24...	5.6	.3	.05	--	120	.16	93	17	.2	--	--
JUNE 05...	9.4	.2	.07	--	192	.26	160	9	.2	--	--
JULY 18...	7.4	.3	.02	209	196	.28	170	15	.2	--	--
AUG. 15...	5.2	.2	.02	164	158	.22	130	6	.2	--	--
SEP. 19...	11	.1	.05	153	160	.21	130	4	.3	--	--

02422000 BIG SWAMP CREEK NEAR LOWNDESBORO, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
04...	--	--	--	298	--	24.0	--
26...	1.3	--	--	220	--	18.0	--
NOV.							
03...	--	--	--	216	--	20.5	--
DEC.							
07...	--	--	--	193	--	14.0	--
JAN.							
17...	111	--	--	280	--	--	--
FEB.							
11...	--	--	--	238	--	9.5	10.4
MAR.							
06...	967	--	--	288	--	10.5	--
27...	--	194	0	438	7.6	15.0	9.3
APR.							
24...	--	93	0	213	7.5	20.0	6.8
JUNE							
05...	--	186	0	344	7.7	20.5	6.2
JULY							
18...	--	189	0	348	7.8	25.0	5.8
AUG.							
15...	--	152	0	248	7.6	25.5	5.1
SEP.							
19...	--	154	0	278	7.4	23.5	1.5

02423000 ALABAMA RIVER AT SELMA, ALA.

LOCATION.--Lat 32°24'20", long 87°01'07", in SE¼ sec. 36, T. 17 N., R. 10 E., Dallas County, at gaging station in first pier from right bank of Edmund Pettus Bridge on U.S. Highway 80, in Selma, 1 mile upstream from Valley Creek, and at mile 214.8.

DRAINAGE AREA.--17,100 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-67 (partial-record station), August 1969 to September 1972.
Water temperatures: October 1955 to November 1956, June 1962 to September 1972. June to September 1962, unpublished.

EXTREMES.--

Period of record:
Water temperatures (1962-1971): Maximum, 30.0°C on several days in 1963, 1966, and 1969; minimum, 6.0°C on several days in 1963 and 1964.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968. No temperature data Jan. 12 - Mar. 13, Mar. 28 - Aug. 16 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 04...	16300	4.2	--	60	20	9.5	3.4	6.7	1.3
NOV. 03...	9000	6.5	--	160	30	8.8	3.0	6.4	1.5
DEC. 07...	31600	5.8	--	100	100	8.5	2.4	4.7	2.0
JAN. 17...	60700	6.3	--	150	10	7.7	1.9	2.7	1.4
FEB. 11...	46900	4.5	--	130	--	8.5	2.0	3.2	1.4
MAR. 27...	35700	6.0	--	160	40	8.3	2.5	4.0	1.1
APR. 24...	5500	3.0	--	90	40	9.6	2.9	4.2	1.2
JUNE 05...	6500	3.4	--	70	34	10	3.6	5.5	1.2
JULY 17...	9300	--	--	--	--	--	--	--	--
AUG. 21...	1/2510	--	--	--	--	--	--	--	--
SEP. 18...	1/12000	--	100	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 04...	6.2	5.9	.1	--	--	.05	--	--	62
NOV. 03...	6.0	6.1	.1	--	--	.2	--	--	61
DEC. 07...	6.2	5.8	.1	--	--	.2	--	--	66
JAN. 17...	5.0	4.8	.1	--	--	.2	--	--	48
FEB. 11...	6.6	3.5	.1	--	--	.2	--	--	49
MAR. 27...	5.9	3.6	.0	--	--	.02	--	--	62
APR. 24...	6.2	4.6	.0	--	--	.1	--	--	48
JUNE 05...	6.2	5.2	.1	--	--	.08	--	--	63
JULY 17...	--	--	--	--	--	.02	--	.080	--
AUG. 21...	--	--	--	--	--	--	.2	.11	--
SEP. 18...	--	--	--	.22	.000	--	.2	.030	64

1/ Estimated

02423000 ALABAMA RIVER AT SELMA, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT.									
04...	60	.08	38	2	.5	--	--	--	--
NOV.									
03...	60	.08	35	1	.5	--	--	--	--
DEC.									
07...	54	.09	31	2	.4	--	--	--	--
JAN.									
17...	44	.07	27	6	.2	--	--	--	--
FEB.									
11...	47	.07	29	3	.3	--	--	--	--
MAR.									
27...	51	.08	31	0	.3	--	--	--	--
APR.									
24...	52	.07	36	3	.3	--	--	--	--
JUNE									
05...	58	.09	40	4	.4	--	--	--	--
JULY									
17...	--	--	--	--	--	3	180	2500	--
AUG.									
21...	--	--	--	--	--	1	120	1800	--
SEP.									
18...	--	--	--	--	--	12	40	500	4

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
04...	44	0	107	7.2	27.0	6.9
NOV.						
03...	42	0	104	7.1	22.5	8.0
DEC.						
07...	36	0	96	7.0	13.0	10.2
JAN.						
17...	26	0	66	6.6	10.0	11.2
FEB.						
11...	32	0	78	7.0	9.5	12.2
MAR.						
27...	38	0	91	6.8	17.0	10.4
APR.						
24...	40	0	94	7.2	20.5	8.8
JUNE						
05...	44	0	101	7.2	24.5	8.6
JULY						
17...	--	--	94	8.0	30.0	10.8
AUG.						
21...	--	--	76	7.0	29.5	8.0
SEP.						
18...	--	--	111	7.0	28.5	6.9

02423000 ALABAMA RIVER AT SELMA, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.0	27.0	23.0	23.0	16.5	16.0	15.0	15.0	---	---	---	---
2	27.0	27.0	23.0	23.0	16.0	16.0	15.0	15.0	---	---	---	---
3	27.0	27.0	23.0	23.0	16.0	15.5	15.0	15.0	---	---	---	---
4	27.0	27.0	23.0	22.5	15.5	14.5	15.0	15.0	---	---	---	---
5	27.0	27.0	22.5	22.5	14.5	14.0	15.0	15.0	---	---	---	---
6	27.0	27.0	22.5	22.5	14.0	14.0	15.0	14.5	---	---	---	---
7	27.0	27.0	22.5	22.0	14.5	14.0	14.5	14.5	---	---	---	---
8	27.0	27.0	22.0	21.5	15.0	14.5	14.5	13.5	---	---	---	---
9	27.0	27.0	21.5	19.5	15.0	15.0	13.5	13.0	---	---	---	---
10	27.0	26.5	19.5	19.0	15.0	15.0	13.0	13.0	---	---	---	---
11	26.5	26.0	19.0	18.5	15.0	15.0	13.0	13.0	---	---	---	---
12	26.0	25.5	18.5	18.0	15.0	15.0	---	---	---	---	---	---
13	25.5	25.0	18.0	17.5	15.0	15.0	---	---	---	---	---	---
14	25.0	24.5	18.5	18.0	15.0	15.0	---	---	---	---	16.0	16.0
15	24.5	24.0	18.0	18.0	15.0	15.0	---	---	---	---	16.5	16.0
16	24.0	24.0	18.0	18.0	15.5	15.0	---	---	---	---	16.5	16.5
17	24.0	23.5	18.0	18.0	16.0	15.5	---	---	---	---	17.0	16.5
18	23.5	23.5	18.5	18.0	16.0	15.5	---	---	---	---	17.0	17.0
19	23.5	23.0	18.5	18.5	15.5	15.0	---	---	---	---	17.0	17.0
20	23.0	23.0	18.5	18.5	15.0	15.0	---	---	---	---	17.0	16.5
21	23.0	23.0	18.5	18.5	15.0	15.0	---	---	---	---	17.0	16.5
22	23.0	23.0	18.5	18.0	15.0	15.0	---	---	---	---	16.5	16.5
23	23.0	23.0	18.0	17.5	15.0	15.0	---	---	---	---	16.5	16.5
24	23.0	23.0	17.5	17.0	15.0	15.0	---	---	---	---	16.5	16.5
25	23.0	23.0	17.0	16.5	15.0	15.0	---	---	---	---	17.0	16.5
26	23.0	23.0	16.5	16.0	15.0	15.0	---	---	---	---	17.5	17.0
27	23.0	23.0	16.0	15.5	15.0	15.0	---	---	---	---	17.5	17.0
28	23.0	23.0	15.5	15.0	15.0	15.0	---	---	---	---	---	---
29	23.0	23.0	15.0	15.0	15.0	15.0	---	---	---	---	---	---
30	23.0	23.0	16.0	15.0	15.0	15.0	---	---	---	---	---	---
31	23.0	23.0	---	---	15.0	15.0	---	---	---	---	---	---
MONTH	27.0	23.0	23.0	15.0	16.5	14.0	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	30.0	30.0
2	---	---	---	---	---	---	---	---	---	---	30.0	30.0
3	---	---	---	---	---	---	---	---	---	---	30.0	30.0
4	---	---	---	---	---	---	---	---	---	---	30.0	30.0
5	---	---	---	---	---	---	---	---	---	---	30.0	30.0
6	---	---	---	---	---	---	---	---	---	---	30.5	30.0
7	---	---	---	---	---	---	---	---	---	---	30.5	30.5
8	---	---	---	---	---	---	---	---	---	---	30.5	30.5
9	---	---	---	---	---	---	---	---	---	---	30.5	30.5
10	---	---	---	---	---	---	---	---	---	---	30.5	30.5
11	---	---	---	---	---	---	---	---	---	---	30.5	30.5
12	---	---	---	---	---	---	---	---	---	---	30.5	30.5
13	---	---	---	---	---	---	---	---	---	---	30.5	30.5
14	---	---	---	---	---	---	---	---	---	---	30.5	30.5
15	---	---	---	---	---	---	---	---	---	---	30.5	30.5
16	---	---	---	---	---	---	---	---	---	---	30.5	30.5
17	---	---	---	---	---	---	---	---	29.5	29.5	30.5	30.5
18	---	---	---	---	---	---	---	---	29.5	29.0	30.5	30.5
19	---	---	---	---	---	---	---	---	29.0	29.0	30.5	30.5
20	---	---	---	---	---	---	---	---	29.0	29.0	30.5	29.5
21	---	---	---	---	---	---	---	---	29.5	29.0	29.5	29.5
22	---	---	---	---	---	---	---	---	30.0	29.5	30.0	29.5
23	---	---	---	---	---	---	---	---	30.0	30.0	30.0	30.0
24	---	---	---	---	---	---	---	---	30.0	30.0	30.0	30.0
25	---	---	---	---	---	---	---	---	30.0	30.0	30.0	30.0
26	---	---	---	---	---	---	---	---	30.0	30.0	30.0	30.0
27	---	---	---	---	---	---	---	---	30.0	30.0	30.5	30.0
28	---	---	---	---	---	---	---	---	30.0	30.0	30.5	30.5
29	---	---	---	---	---	---	---	---	30.0	30.0	30.5	29.5
30	---	---	---	---	---	---	---	---	30.0	30.0	29.5	29.5
31	---	---	---	---	---	---	---	---	30.0	30.0	---	---
MONTH			---	---	---	---	---	---	---	---	30.5	29.5

02423630 SHADES CREEK NEAR GREENWOOD, ALA.

LOCATION.--Lat 33°19'36", long 86°56'59", in W½ sec. 3, T. 20 S., R. 4 W., Jefferson County, at gaging station near left bank on downstream side of bridge on county road, 1.4 miles southwest of Greenwood, 5.5 miles south of Bessemer, and at mile 20.8.

DRAINAGE AREA.--72.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970 (partial-record station), October 1970 to September 1972.
Water temperatures: October 1969 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 28.5°C July 25; minimum, 4.5°C Jan. 17.

Period of record:
Water temperatures: Maximum, 28.5°C July 25, 1972; minimum, 2.5°C Jan. 9, 10, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 01...	34	9.1	80	130	30	5.0	21	5.2	98	0	41	11
NOV. 11...	22	11	80	99	32	6.0	24	6.3	118	0	34	14
FEB. 08...	228	9.4	80	6	15	3.2	6.4	2.1	46	0	20	4.8
MAR. 22...	100	--	--	--	--	--	--	--	62	0	--	7.0
APR. 07...	75	5.3	240	200	18	3.7	9.1	2.4	--	--	22	6.0
MAY 08...	28	7.8	230	360	23	5.7	24	4.8	--	--	27	15
JUNE 22...	23	7.8	80	190	36	6.3	23	1.1	--	--	26	18
AUG. 03...	23	7.8	100	100	30	4.9	10	4.6	--	--	24	9.4
31...	19	9.4	190	140	35	6.2	21	6.6	--	--	36	16

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
OCT. 01...	.1	1.9	180	179	.24	96	16	.9	292	6.8	22.0	3
NOV. 11...	.1	2.7	184	198	.25	100	3	1.0	313	7.5	7.5	--
FEB. 08...	.3	.7	--	87	.12	51	14	.4	138	7.4	7.5	--
MAR. 22...	--	--	--	--	--	62	11	--	179	7.8	15.0	--
APR. 07...	.3	.1	96	96	.13	60	13	.5	--	--	--	--
MAY 08...	.4	4.3	186	182	.25	81	0	1.2	--	--	--	--
JUNE 22...	.2	6.3	203	214	.28	120	6	.9	--	--	--	--
AUG. 03...	.2	1.4	154	139	.21	95	26	.4	--	--	--	--
31...	.2	3.4	199	200	.27	110	18	.9	--	--	--	--

FIELD ANALYSES

DATE	DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JAN. 04...	929	--	--	--	--	11.5	--
APR. 07...	--	58	0	181	7.0	14.5	7.4
MAY 02...	31	--	--	275	--	20.0	--
08...	--	114	0	318	7.5	20.0	3.8
JUNE 13...	19	--	--	344	--	25.0	--
22...	--	139	0	380	7.5	23.0	4.0
JULY 27...	26	--	--	300	--	25.0	--
AUG. 03...	--	86	0	273	7.2	24.0	4.5
10...	20	--	--	--	--	25.0	--
31...	--	112	0	338	7.3	22.5	3.3

02423630 SHADES CREEK NEAR GREENWOOD, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.5	22.0	18.0	17.0	---	---	13.5	13.0	7.0	7.0	13.5	13.0
2	22.5	22.0	17.5	17.5	---	---	13.0	12.5	7.5	7.0	13.5	13.5
3	22.5	22.0	18.0	17.0	---	---	12.5	11.0	7.5	7.5	14.0	11.5
4	22.5	22.0	17.0	13.5	---	---	12.5	11.0	7.5	6.0	11.5	10.5
5	22.5	22.5	13.5	12.0	---	---	12.5	10.5	6.0	5.0	12.5	11.0
6	22.5	22.5	12.0	11.0	---	---	10.5	9.0	6.0	5.5	12.5	11.0
7	22.5	20.5	11.5	10.0	---	---	9.0	8.5	8.0	6.0	12.5	11.0
8	20.5	19.0	10.0	9.0	---	---	8.5	8.5	8.0	7.0	13.5	12.5
9	19.0	18.5	9.0	8.5	11.5	11.5	10.5	8.5	7.0	7.0	13.5	12.5
10	18.5	17.0	8.5	7.5	13.5	11.5	12.5	10.5	8.0	7.0	12.5	11.0
11	17.0	14.5	8.5	7.5	13.5	13.5	13.5	12.5	8.5	8.0	14.0	12.0
12	15.5	14.0	8.5	7.5	13.5	13.0	12.5	11.5	9.0	8.5	14.5	13.5
13	15.0	14.5	9.0	8.0	13.5	13.0	13.5	11.5	9.0	8.5	15.5	14.5
14	16.5	15.0	10.0	9.0	14.0	13.5	13.5	12.0	8.5	7.5	17.0	15.5
15	17.5	16.0	11.5	10.0	15.5	14.0	12.0	8.5	8.5	8.0	16.5	14.0
16	18.0	17.0	11.5	10.5	16.5	15.5	8.5	5.5	9.5	8.5	17.0	16.5
17	18.5	18.0	11.5	10.5	16.5	14.5	5.5	4.5	10.5	9.5	17.0	16.0
18	19.0	18.5	12.5	11.5	14.5	11.5	6.0	5.0	10.0	9.5	16.0	14.5
19	18.5	17.5	13.0	12.5	11.5	9.5	8.5	6.0	9.5	8.5	15.0	14.0
20	18.0	17.5	13.0	11.5	12.0	9.5	10.5	8.5	9.0	8.0	16.5	14.0
21	18.0	17.5	11.5	10.5	13.5	12.0	11.5	10.5	8.5	8.0	16.5	16.5
22	18.5	18.0	10.5	8.5	13.5	13.0	12.0	11.5	10.0	8.5	16.5	15.0
23	18.5	18.5	9.0	9.0	13.0	11.5	12.0	12.0	11.5	10.0	15.5	15.0
24	18.5	18.5	8.0	7.5	11.5	11.0	13.0	12.0	13.0	11.5	15.0	13.5
25	18.5	18.0	7.5	7.5	11.0	10.5	13.5	12.5	15.0	13.0	13.5	11.5
26	18.0	17.5	---	---	11.5	11.0	12.5	11.0	15.0	14.5	11.5	11.0
27	17.5	16.5	---	---	12.0	11.0	11.0	10.0	14.5	13.5	12.5	11.5
28	17.5	16.5	---	---	12.5	12.0	11.5	10.5	13.5	12.5	14.0	12.5
29	17.5	16.5	---	---	13.5	12.5	10.5	10.0	13.5	12.0	17.5	16.0
30	17.5	16.5	---	---	15.0	13.5	10.0	8.5	---	---	17.5	15.0
31	18.0	17.5	---	---	15.0	13.5	8.5	7.0	---	---	15.0	14.5
MONTH	22.5	14.0	18.0	7.5	---	---	13.5	4.5	15.0	5.0	17.5	10.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	20.0	18.5	23.0	21.5	26.5	24.0	24.5	23.5	23.5	22.0
2	13.5	12.0	20.5	20.0	22.0	20.5	26.5	25.5	24.5	23.5	23.0	22.0
3	14.0	12.0	20.5	20.0	22.0	20.5	27.0	24.5	25.5	23.5	23.5	22.0
4	14.5	14.0	20.0	19.5	23.0	21.0	27.0	26.0	25.5	24.0	23.5	22.5
5	14.5	13.0	19.5	18.0	23.5	22.0	26.5	26.0	25.0	24.5	23.5	22.0
6	14.5	13.0	19.5	18.0	25.0	23.0	26.0	24.5	25.0	24.0	22.0	21.5
7	18.0	14.5	19.0	18.5	26.0	24.5	24.5	23.0	26.0	24.5	22.0	21.5
8	18.0	16.5	20.0	19.0	26.0	24.5	24.5	23.5	26.5	24.5	22.5	22.0
9	16.5	15.5	20.0	20.0	26.5	25.5	24.5	23.5	26.0	24.5	23.5	22.5
10	15.5	14.5	20.0	19.0	26.5	25.5	25.0	23.5	24.5	24.0	23.5	23.0
11	16.0	15.5	19.5	18.5	26.0	25.0	25.5	24.0	24.5	23.5	23.5	23.0
12	17.5	16.0	20.0	19.5	25.5	25.0	26.0	24.5	25.5	24.0	23.0	22.0
13	19.5	17.5	20.0	19.5	25.5	25.0	26.0	24.5	24.5	21.5	23.0	21.5
14	21.0	19.5	20.0	20.0	26.0	25.0	26.5	25.0	22.5	22.5	23.0	21.5
15	22.0	21.0	21.0	20.0	26.0	25.0	26.5	25.5	24.0	22.5	23.5	22.0
16	22.5	21.5	21.0	21.0	26.0	25.0	26.5	25.5	24.5	23.5	23.5	22.5
17	21.5	20.5	21.0	21.0	26.0	25.5	27.0	25.5	25.0	24.0	23.5	23.0
18	20.5	19.5	21.5	21.0	26.5	25.5	26.5	26.0	25.5	24.0	24.0	22.0
19	20.0	19.5	22.0	21.0	26.0	25.0	27.5	26.0	25.5	24.5	23.5	23.0
20	21.0	20.0	21.5	20.5	25.0	24.5	27.5	26.5	25.5	24.5	23.5	22.5
21	21.0	20.5	21.5	21.0	26.0	25.0	28.0	26.5	25.0	24.0	23.0	22.5
22	21.0	20.5	22.0	21.0	25.5	24.0	27.5	26.5	24.0	23.5	23.0	22.5
23	21.0	20.0	22.0	21.0	24.0	22.5	27.5	26.0	24.5	24.0	23.0	23.0
24	20.0	19.0	22.0	21.5	24.0	22.0	27.5	26.5	24.5	23.5	23.0	23.0
25	19.0	17.5	22.5	21.5	23.5	23.0	28.5	27.5	24.5	23.5	23.0	22.5
26	17.5	16.5	23.0	22.5	24.0	23.0	28.0	27.5	25.0	23.5	22.5	22.5
27	17.0	16.0	23.0	22.0	24.0	23.5	28.0	25.0	25.0	24.5	22.5	22.5
28	17.0	16.5	23.0	22.0	25.0	24.0	26.0	25.5	25.0	24.0	22.5	22.5
29	18.0	17.0	22.5	22.0	25.0	25.0	26.0	25.0	24.0	22.5	22.5	22.5
30	19.0	17.5	23.5	22.5	26.5	25.0	25.0	23.0	23.0	22.0	22.5	20.5
31	---	---	23.5	23.0	---	---	23.5	23.0	23.0	22.0	---	---
MONTH	22.5	12.0	23.5	18.0	26.5	20.5	28.5	23.0	26.5	21.5	24.0	20.5

02424000 CAHABA RIVER AT CENTREVILLE, ALA.

LOCATION.--Lat 32°56'42", long 87°08'21", in E½ sec. 26, T. 23 N., R. 9 E., Bibb County, at gaging station on left bank 60 ft downstream from bridge on U.S. Highway 82, 0.2 mile west of Centreville, 0.5 mile upstream from Gulf, Mobile & Ohio Railroad bridge, 2.5 miles upstream from Sandy Creek, and at mile 81.2.

DRAINAGE AREA.--1,029 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 04...	394	7.2	250	70	25	9.3	3.5	1.1	111	0	14	2.6
NOV. 22...	332	5.0	10	23	33	10	3.3	1.6	130	0	19	5.2
DEC. 20...	1990	8.3	20	25	18	5.4	3.8	1.6	72	0	11	3.0
FEB. 09...	3640	7.6	20	28	14	4.8	3.0	1.7	55	0	14	2.4
MAR. 20...	1810	--	--	--	--	--	--	--	70	0	--	2.6
APR. 04...	1310	2.7	240	40	21	7.2	3.6	1.7	--	--	13	2.8
MAY 12...	496	6.2	130	33	24	11	4.2	.9	--	--	13	3.0
JUNE 20...	350	7.0	0	19	28	10	4.7	1.1	--	--	15	3.6
AUG. 04...	379	5.7	170	37	25	9.1	4.4	1.5	--	--	13	3.4
28...	251	6.9	60	10	25	9.1	5.5	2.1	--	--	17	2.8

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 04...	.1	.05	126	118	.17	100	10	.2	210	7.5	26.0	3
NOV. 22...	.1	.02	144	141	.20	120	14	.1	--	7.9	--	--
DEC. 20...	.1	.02	92	86	.13	67	8	.2	149	7.7	22.0	--
FEB. 09...	.2	.07	--	74	.10	55	10	.2	127	7.2	9.0	--
MAR. 20...	--	--	--	--	--	68	11	--	--	7.7	--	--
APR. 04...	.1	.02	97	94	.13	82	12	.2	--	--	--	--
MAY 12...	.2	.02	121	122	.16	110	12	.2	--	--	--	--
JUNE 20...	.1	.00	127	130	.17	111	10	.2	--	--	--	--
AUG. 04...	.1	.00	114	118	.16	100	8	.2	--	--	--	--
28...	.1	.00	120	124	.16	100	8	.2	--	--	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV. 22...	295	--	--	233	--	12.5	--
DEC. 30...	897	--	--	246	--	17.0	--
FEB. 16...	1710	--	--	153	--	9.0	--
MAR. 20...	1810	--	--	137	--	16.0	--
APR. 04...	--	86	0	172	8.3	16.0	12.0
MAY 04...	576	--	--	108	--	21.0	--
12...	--	120	0	225	8.1	21.0	8.9
JUNE 14...	340	--	--	225	--	25.0	--
20...	--	124	0	228	8.2	26.5	7.3
JULY 24...	299	--	--	240	--	27.0	--
AUG. 04...	--	113	0	210	7.9	27.0	7.2
28...	--	112	0	212	7.9	25.0	7.2
SEP. 13...	205	--	--	270	--	27.0	--

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.

LOCATION.--Lat 32°13'17", long 87°09'48", in NW¼ sec. 3, T. 14 N., R. 9 E., Dallas County, at gaging station, on left bank 20 feet upstream from county road, 3 miles upstream from mouth, and 9.8 miles southeast of Orrville, Ala.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1972.
Water temperatures: May to September 1972.

EXTREMES.--May to September 1972.
Specific conductance: Maximum, 108 micromhos Sept. 18; minimum, 41 micromhos June 26.
pH: Maximum, 9.2 units July 23; minimum, 5.8 units June 29-30.
Dissolved oxygen: Maximum, 10.2 mg/l June 2; minimum, 5.0 mg/l June 19.
Water temperature: Maximum, 29.0°C July 25, Aug. 7, 8.

REMARKS.--No specific conductance, pH, dissolved oxygen, or water temperature data for July 15-18 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE								
07...	4.0	33	0	5.2	28	1	77	7.5

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), MAY TO SEPTEMBER 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	67	63	59	46	69	66	67	64
2	---	---	---	---	72	67	57	46	67	62	67	62
3	---	---	---	---	76	72	62	57	67	64	70	66
4	---	---	---	---	78	75	66	61	67	63	71	66
5	---	---	---	---	81	77	63	53	68	63	70	67
6	---	---	---	---	82	75	58	54	67	62	70	66
7	---	---	---	---	82	79	65	59	68	64	69	64
8	---	---	---	---	81	78	69	65	68	64	70	62
9	---	---	---	---	81	77	72	70	67	62	64	59
10	---	---	---	---	85	72	74	72	66	60	63	60
11	---	---	---	---	78	70	76	73	64	62	65	61
12	---	---	---	---	71	69	77	71	65	60	66	62
13	---	---	---	---	74	71	74	71	65	60	67	64
14	---	---	---	---	75	72	73	70	65	60	67	63
15	---	---	---	---	75	73	---	---	65	60	69	59
16	---	---	---	---	75	61	---	---	65	60	63	60
17	---	---	---	---	68	64	---	---	66	61	64	61
18	---	---	---	---	70	67	---	---	66	63	108	63
19	---	---	---	---	72	57	72	69	68	63	70	65
20	---	---	---	---	63	58	72	69	66	61	71	66
21	---	---	---	---	67	61	72	68	67	62	70	64
22	---	---	---	---	69	66	71	68	66	62	66	61
23	---	---	---	---	71	69	71	68	67	62	67	64
24	---	---	---	---	72	69	75	71	66	60	65	59
25	---	---	---	---	73	45	79	67	64	60	63	57
26	---	---	---	---	54	41	74	70	64	60	65	52
27	---	---	84	80	60	54	75	71	65	60	57	55
28	---	---	83	80	67	60	75	70	66	63	55	50
29	---	---	83	79	68	43	76	67	69	63	52	49
30	---	---	80	69	55	43	71	67	69	65	71	46
31	---	---	75	59	---	---	70	66	69	64	---	---
MONTH	---	---	---	---	85	41	79	46	69	60	108	46

MOBILE RIVER BASIN

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

TURBIDITY (JTU), AUGUST TO SEPTEMBER, 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	1	0
2	---	---	---	---	---	---	---	---	---	---	1	0
3	---	---	---	---	---	---	---	---	---	---	1	0
4	---	---	---	---	---	---	---	---	---	---	2	0
5	---	---	---	---	---	---	---	---	---	---	3	0
6	---	---	---	---	---	---	---	---	---	---	1	0
7	---	---	---	---	---	---	---	---	---	---	1	0
8	---	---	---	---	---	---	---	---	---	---	0	0
9	---	---	---	---	---	---	---	---	---	---	1	0
10	---	---	---	---	---	---	---	---	---	---	0	0
11	---	---	---	---	---	---	---	---	---	---	1	0
12	---	---	---	---	---	---	---	---	---	---	1	0
13	---	---	---	---	---	---	---	---	---	---	1	0
14	---	---	---	---	---	---	---	---	---	---	1	0
15	---	---	---	---	---	---	---	---	---	---	1	0
16	---	---	---	---	---	---	---	---	---	---	2	1
17	---	---	---	---	---	---	---	---	---	---	2	1
18	---	---	---	---	---	---	---	---	---	---	---	1
19	---	---	---	---	---	---	---	---	---	---	2	2
20	---	---	---	---	---	---	---	---	---	---	3	2
21	---	---	---	---	---	---	---	---	---	---	2	1
22	---	---	---	---	---	---	---	---	---	---	1	1
23	---	---	---	---	---	---	---	---	---	---	1	1
24	---	---	---	---	---	---	---	---	1	0	1	1
25	---	---	---	---	---	---	---	---	1	0	1	1
26	---	---	---	---	---	---	---	---	1	0	5	1
27	---	---	---	---	---	---	---	---	1	0	1	1
28	---	---	---	---	---	---	---	---	1	0	1	1
29	---	---	---	---	---	---	---	---	1	0	1	1
30	---	---	---	---	---	---	---	---	1	0	70	1
31	---	---	---	---	---	---	---	---	1	0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	70	0

PH (UNITS), MAY TO SEPTEMBER, 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	7.5	6.8	6.5	6.0	7.2	6.9	8.3	6.7
2	---	---	---	---	7.8	7.1	6.5	6.0	7.3	6.9	8.0	6.6
3	---	---	---	---	8.1	7.2	6.9	6.4	7.7	6.9	8.0	6.5
4	---	---	---	---	8.4	7.4	7.4	6.7	7.9	7.1	8.2	6.5
5	---	---	---	---	8.7	7.5	6.8	6.4	8.0	7.2	7.4	6.6
6	---	---	---	---	8.2	6.9	6.5	6.3	8.3	7.3	7.7	6.2
7	---	---	---	---	8.2	6.4	6.7	6.4	8.3	7.3	8.1	6.3
8	---	---	---	---	7.8	6.4	6.9	6.5	8.5	7.5	8.0	6.3
9	---	---	---	---	8.0	6.4	7.1	6.6	8.6	7.5	8.0	6.6
10	---	---	---	---	8.1	6.4	7.2	6.6	8.3	7.5	8.0	6.5
11	---	---	---	---	6.6	6.3	7.3	6.7	7.7	6.8	8.0	6.4
12	---	---	---	---	7.4	6.4	7.3	6.3	7.6	6.8	7.6	6.3
13	---	---	---	---	7.5	6.5	6.7	6.2	7.9	6.9	7.5	6.2
14	---	---	---	---	7.4	6.5	6.6	6.1	8.1	7.0	7.5	6.3
15	---	---	---	---	7.8	6.6	---	---	8.3	7.3	7.9	6.3
16	---	---	---	---	7.5	6.6	---	---	8.6	7.5	8.0	6.8
17	---	---	---	---	7.6	6.6	---	---	9.1	7.7	7.8	6.6
18	---	---	---	---	7.7	6.7	---	---	8.0	7.8	8.0	6.5
19	---	---	---	---	6.9	6.3	7.5	6.7	7.8	6.8	7.2	6.4
20	---	---	---	---	6.6	6.3	8.0	6.7	8.1	6.8	7.4	6.5
21	---	---	---	---	6.9	6.3	8.2	7.0	8.3	6.9	7.6	6.6
22	---	---	---	---	7.1	6.5	8.9	7.3	8.2	7.0	7.4	6.2
23	---	---	---	---	7.2	6.7	9.2	7.6	7.9	7.0	7.4	6.4
24	---	---	---	---	7.4	6.7	8.3	7.9	7.8	6.7	7.4	6.4
25	---	---	---	---	7.8	6.3	8.4	7.1	7.9	6.8	7.5	6.5
26	---	---	---	---	6.7	6.3	7.9	7.1	8.0	6.8	7.2	6.6
27	---	---	7.7	7.0	6.9	6.2	8.0	7.3	8.1	6.9	7.1	6.5
28	---	---	7.7	6.9	6.1	6.1	[illegible]	7.1	8.3	7.0	7.1	6.4
29	---	---	7.8	6.9	6.6	5.8	8.2	7.1	8.4	7.0	7.2	6.5
30	---	---	7.8	6.9	6.5	5.8	7.7	7.0	8.2	7.1	7.4	6.1
31	---	---	7.4	6.6	---	---	7.8	7.1	8.4	6.7	---	---
MONTH	---	---	---	---	8.7	5.8	9.2	6.0	9.1	6.7	8.3	6.1

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

DISSOLVED OXYGEN (MG/L), MAY TO SEPTEMBER, 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	10.1	8.3	7.7	6.8	7.7	6.3	9.2	6.5
2	---	---	---	---	10.2	8.3	7.6	6.9	8.2	6.3	9.0	6.2
3	---	---	---	---	10.0	8.0	7.4	6.5	7.9	6.2	9.2	6.5
4	---	---	---	---	9.9	7.6	7.4	6.6	7.9	6.1	9.1	6.2
5	---	---	---	---	9.7	7.2	7.4	6.9	8.0	6.0	8.2	5.8
6	---	---	---	---	9.5	6.7	7.6	7.0	8.2	6.1	9.3	6.4
7	---	---	---	---	9.4	6.5	7.8	6.7	8.1	6.1	9.3	6.4
8	---	---	---	---	9.8	7.5	7.5	6.3	8.2	6.0	9.0	6.2
9	---	---	---	---	9.6	7.3	7.4	6.1	8.4	6.3	8.7	6.0
10	---	---	---	---	9.6	7.0	7.2	5.8	8.1	6.3	8.8	5.8
11	---	---	---	---	8.8	6.9	7.9	6.5	7.7	5.9	9.0	5.9
12	---	---	---	---	9.6	7.0	7.1	5.9	8.0	5.9	8.5	6.1
13	---	---	---	---	9.2	6.6	7.3	5.8	8.3	6.1	8.7	6.3
14	---	---	---	---	8.9	6.3	7.3	5.8	8.4	6.2	8.7	6.2
15	---	---	---	---	8.9	6.0	---	---	8.6	6.3	7.5	5.9
16	---	---	---	---	8.4	5.7	---	---	8.6	6.3	8.8	6.1
17	---	---	---	---	8.3	5.6	---	---	9.1	6.3	9.2	5.9
18	---	---	---	---	7.7	5.1	---	---	9.1	6.3	7.9	5.7
19	---	---	---	---	6.5	5.0	7.8	6.7	8.5	6.4	7.9	5.7
20	---	---	---	---	6.8	5.8	8.6	6.5	8.5	6.5	8.0	5.7
21	---	---	---	---	6.9	5.7	8.4	6.6	8.5	6.2	8.4	5.7
22	---	---	---	---	7.3	5.7	8.8	6.6	8.5	6.1	8.4	5.8
23	---	---	---	---	7.7	6.2	8.5	6.5	8.5	6.4	8.4	5.7
24	---	---	---	---	7.9	6.4	7.9	5.7	8.7	6.2	8.2	5.8
25	---	---	---	---	7.3	6.3	7.8	5.7	8.5	6.2	8.4	5.7
26	---	---	---	---	7.6	7.2	7.7	5.7	8.6	6.2	7.6	5.6
27	---	---	9.9	8.1	7.5	6.5	7.9	5.9	8.1	6.2	7.7	5.6
28	---	---	9.9	8.3	7.2	6.1	7.9	6.1	8.9	6.2	7.6	5.7
29	---	---	10.0	8.3	7.2	6.1	7.3	6.1	9.2	6.6	7.7	5.4
30	---	---	9.9	8.2	7.5	6.7	8.3	6.7	9.4	6.7	7.2	5.4
31	---	---	9.6	8.1	---	---	8.6	7.1	9.0	6.6	---	---
MONTH	---	---	---	---	10.2	5.0	8.8	5.7	9.4	5.9	9.3	5.4

TEMPERATURE (°C) OF WATER, MAY TO SEPTEMBER, 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	21.5	17.0	25.5	22.0	26.5	23.5	25.5	22.0
2	---	---	---	---	21.5	16.5	24.5	21.5	26.0	24.0	25.0	22.0
3	---	---	---	---	22.5	17.0	26.0	22.5	27.5	23.5	25.5	21.5
4	---	---	---	---	23.0	18.0	26.0	23.0	28.0	24.0	26.0	22.0
5	---	---	---	---	24.0	19.0	23.0	21.5	28.5	25.0	25.0	23.5
6	---	---	---	---	25.0	21.0	23.5	20.0	28.0	24.5	25.5	22.0
7	---	---	---	---	26.0	22.0	23.5	19.5	29.0	24.5	25.5	22.0
8	---	---	---	---	26.0	22.5	24.5	20.0	29.0	25.0	26.0	23.0
9	---	---	---	---	26.5	23.0	23.0	20.5	28.0	24.0	26.5	23.5
10	---	---	---	---	26.5	23.0	24.5	20.5	28.0	24.5	26.0	23.5
11	---	---	---	---	23.0	21.5	25.0	21.0	28.0	23.5	26.0	23.0
12	---	---	---	---	24.0	21.5	26.5	22.0	27.5	23.5	26.0	21.5
13	---	---	---	---	25.5	22.5	26.5	22.0	27.0	24.0	25.0	20.5
14	---	---	---	---	25.5	22.5	25.5	22.5	27.5	24.0	25.5	21.0
15	---	---	---	---	26.0	22.5	---	---	25.0	24.0	25.5	22.0
16	---	---	---	---	26.0	22.5	---	---	28.0	24.0	25.5	22.0
17	---	---	---	---	25.5	22.5	---	---	28.0	24.5	24.5	23.0
18	---	---	---	---	25.5	23.0	---	---	27.5	24.0	25.5	23.5
19	---	---	---	---	24.0	21.5	27.5	26.0	27.0	24.0	25.0	22.5
20	---	---	---	---	25.0	21.5	27.5	24.5	28.0	24.0	26.0	22.0
21	---	---	---	---	26.5	22.5	28.0	24.0	28.0	25.0	26.0	23.0
22	---	---	---	---	24.5	22.0	27.5	23.5	27.0	24.0	25.0	21.5
23	---	---	---	---	24.5	20.0	28.0	24.0	27.0	23.5	25.5	22.5
24	---	---	---	---	25.0	21.0	28.5	25.0	27.0	24.0	25.5	22.0
25	---	---	---	---	24.0	21.5	29.0	25.5	26.5	24.0	25.0	22.0
26	---	---	---	---	23.0	21.0	28.5	24.5	28.0	24.0	26.0	23.0
27	---	---	23.5	19.5	25.0	22.0	28.5	25.0	28.0	24.5	25.5	22.5
28	---	---	22.5	20.0	27.0	23.5	28.5	25.5	27.5	23.5	26.0	23.0
29	---	---	21.5	19.5	25.5	22.5	27.0	25.0	25.5	22.5	25.5	23.0
30	---	---	22.5	20.0	25.5	21.5	26.0	24.0	26.0	22.5	25.5	19.5
31	---	---	22.5	19.5	---	---	26.5	23.0	25.5	23.0	---	---
MONTH	---	---	---	---	27.0	16.5	29.0	19.5	29.0	22.5	26.5	19.5

02427700 TURKEY CREEK AT KIMBROUGH, ALA.

LOCATION.--Lat 32°01'13", long 87°33'30", in SE¼ sec. 10, T. 12 N., R. 5 E., Wilcox County, at gaging station on right bank on upstream side of bridge on county road, 0.3 mile upstream from Southern Railway bridge, 0.6 mile downstream from State Highway 5, 1 mile south of Kimbrough, and 2 miles upstream from mouth.

DRAINAGE AREA.--114 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
21...	3.0	--	--	--	--	--	--	--	54	0	--	9.0
DEC.												
02...	17	--	--	--	--	--	--	--	29	0	--	5.6
JULY												
17...	25	6.2	1100	110	7.8	2.5	4.6	1.4	--	--	7.2	4.4
AUG.												
15...	11	10	880	83	8.1	2.3	5.4	2.0	--	--	6.4	5.2
SEP.												
21...	2.4	12	380	50	12	3.6	13	2.5	--	--	5.6	13

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT.										
21...	--	--	--	--	--	44	0	--	--	7.2
DEC.										
02...	--	--	--	--	--	34	10	--	95	7.3
JULY										
17...	.2	.05	67	53	.09	30	1	.4	--	--
AUG.										
15...	.1	.02	62	58	.08	30	0	.4	--	--
SEP.										
21...	.1	.05	--	92	.13	45	0	.8	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
21...	--	--	--	130	--	21.0	--
DEC.							
02...	--	--	--	--	--	8.0	--
JAN.							
25...	209	--	--	80	--	15.0	--
JUNE							
13...	11	--	--	105	--	27.0	--
JULY							
17...	--	36	0	87	7.2	26.0	8.1
AUG.							
15...	--	37	0	89	7.0	26.5	7.1
SEP.							
21...	--	57	0	140	6.9	25.5	3.5
22...	1.3	--	--	--	--	19.0	--

02429500 ALABAMA RIVER AT CLAIBORNE, Ala.
(International Hydrological Decade River Station)

LOCATION.--Lat 31°32'48", long 87°30'45", in sec. 25, T. 7 N., R. 5 E., Monroe County, at gaging station near left bank on downstream side of bridge on U.S. Highway 84 at Claiborne, 0.5 mile downstream from Limestone Creek, 12 miles west of Monroeville, and at mile 76.1.

DRAINAGE AREA.--22,000 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1968 (daily), October 1969 to September 1972 (monthly).
Water temperatures: March 1966 to September 1968.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.									
06...	13100	4.7	60	10	11	3.1	6.0	1.5	7.0
NOV.									
04...	11300	7.2	170	30	9.2	2.6	6.4	1.4	5.6
DEC.									
09...	84700	5.8	100	10	15	2.3	3.8	2.2	6.6
JAN.									
17...	160000	6.0	130	20	9.1	1.9	2.6	1.1	5.8
FEB.									
09...	93600	4.7	140	--	12	1.8	2.5	1.4	7.6
MAR.									
30...	39300	6.4	200	60	10	2.6	3.8	1.1	7.0
APR.									
27...	17800	4.0	110	80	11	2.9	4.2	1.2	6.0
JUNE									
08...	24300	3.0	0	3	13	3.6	5.4	1.4	7.4
JULY									
20...	18900	--	--	--	--	--	--	--	--
AUG.									
24...	10700	--	--	--	--	--	--	--	--
SEP.									
12...	11500	5.7	70	11	9.8	3.2	6.4	1.6	3.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.									
06...	5.7	.1	--	--	.05	--	--	65	63
NOV.									
04...	6.4	.1	--	--	.05	--	--	71	59
DEC.									
09...	4.4	.2	--	--	.07	--	--	84	70
JAN.									
17...	2.9	.1	--	--	.2	--	--	50	44
FEB.									
09...	2.6	.1	--	--	.2	--	--	58	53
MAR.									
30...	3.6	.1	--	--	.3	--	--	66	56
APR.									
27...	4.0	.0	--	--	.2	--	--	57	57
JUNE									
08...	5.1	.1	--	--	.1	--	--	70	65
JULY									
20...	--	--	--	--	.2	--	.020	--	--
AUG.									
24...	--	--	--	--	--	.1	.050	--	--
SEP.									
12...	7.0	.1	.22	.002	.05	--	.050	64	57

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued
(International Hydrological Decade River Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)
OCT.									
06...	.09	41	2	.4	--	.2	8	130	--
NOV.									
04...	.10	34	1	.5	--	.8	31	530	--
DEC.									
09...	.11	47	3	.2	--	2.0	1800	14000	--
JAN.									
17...	.07	31	7	.2	--	1.4	140	3900	--
FEB.									
09...	.08	38	6	.2	--	2.4	670	9700	--
MAR.									
30...	.09	36	3	.3	--	1.2	--	1100	--
APR.									
27...	.08	40	3	.3	--	1.2	--	1500	--
JUNE									
08...	.10	48	4	.3	--	.7	--	1000	--
JULY									
20...	--	--	--	--	7	--	8	170	--
AUG.									
24...	--	--	--	--	10	--	9	900	--
SEP.									
12...	.09	38	5	.5	11	1.1	11	250	6

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
06...	--	48	0	118	7.0	27.0	9.2
21...	7760	--	--	--	--	23.0	--
NOV.							
04...	--	41	0	107	7.2	22.0	9.0
DEC.							
09...	--	54	0	122	7.4	12.0	8.9
JAN.							
17...	--	29	0	73	6.6	11.0	9.6
FEB.							
09...	--	30	0	86	7.0	9.0	11.0
MAR.							
30...	--	40	0	95	7.2	15.5	10.2
APR.							
27...	--	46	0	101	7.2	20.5	9.6
JUNE							
08...	--	54	0	121	7.4	26.0	8.4
JULY							
20...	--	41	0	99	7.2	29.5	9.2
AUG.							
24...	--	40	0	96	7.2	29.5	8.6
SEP.							
12...	--	40	0	100	7.1	29.5	9.0

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (PLAN-CHET COUNT) (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
NOV.								
04...	1.8	.9	2.6	3.3	.6	--	.03	.06
JAN.								
17...	1.2	5.2	2.6	3.3	2.9	--	.02	.06
AUG.								
24...	<.4	.6	2.0	2.5	.6	<.1	--	.01

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.

LOCATION.--Lat 33°04'45", long 88°14'18", in sec. 7, T. 24 N., R. 2 W., Pickens County, at gaging station near left bank on downstream side of bridge on State Highway 17, 200 feet upstream from Alabama, Tennessee, and Northern Railroad bridge, 1.2 miles northeast of Cochrane, 2.2 miles downstream from Boguechitto Creek, 7 miles southwest of Aliceville, and at mile 271.4.

DRAINAGE AREA.--5,900 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1972.
Temperature: October 1971 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 222 micromhos June 29; minimum, 62 micromhos Jan. 10.
Temperature: Maximum, 32.5°C July 25; minimum, 5.5°C Feb. 5.

REMARKS.--No specific conductance or temperature records Oct. 30 - Nov. 23, Apr. 3-5, or June 17-19 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 01...	2050	5.4	410	20	15	1.3	4.2	2.2	--	--	5.6
NOV. 08...	1800	1.7	450	40	11	1.4	7.0	2.3	32	0	8.4
12...	1400	--	--	--	--	--	--	--	--	--	--
24...	1470	7.9	680	110	10	1.3	8.4	2.1	--	--	8.2
JAN. 12...	52100	5.1	70	20	11	.9	1.5	1.6	--	--	5.2
FEB. 07...	8940	6.7	210	50	17	1.1	3.5	1.3	--	--	10
APR. 05...	8530	6.0	290	40	11	1.2	2.9	1.1	--	--	7.5
MAY 08...	2920	8.2	520	8	14	1.5	4.3	1.7	--	--	9.2
15...	9770	7.3	140	5	17	1.3	3.9	1.9	--	--	9.6
JUNE 16...	1380	7.2	0	9	17	1.6	5.8	1.5	--	--	8.4
JULY 31...	1190	7.6	10	4	14	1.6	7.1	1.7	--	--	6.4
AUG. 17...	1390	7.6	10	14	16	1.3	8.9	2.4	--	--	18
SEP. 11...	938	7.6	30	7	18	1.8	11	2.7	--	--	8.2

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT. 01...	6.0	.1	--	.003	.2	.059	.059	75	64	.10	43
NOV. 08...	12	.0	.50	.015	.08	.065	.12	85	60	.12	34
12...	--	--	--	--	--	--	--	--	--	--	--
24...	13	.1	.29	.015	.3	.050	.16	78	66	.11	31
JAN. 12...	2.1	.1	.50	.006	.09	.071	.16	47	43	.06	31
FEB. 07...	5.2	.2	.74	.006	.3	.033	.46	72	70	.10	47
APR. 05...	4.4	.1	.35	.006	.2	.020	.091	68	52	.07	33
MAY 08...	4.4	.1	.45	.027	.3	.029	.082	69	67	.09	41
15...	5.0	.1	.53	.012	.5	.039	.19	77	71	.10	48
JUNE 16...	9.0	.1	.27	.003	.1	.003	.026	76	76	.10	49
JULY 31...	9.4	.2	.36	.006	.3	.010	.085	81	71	.11	42
AUG. 17...	16	.1	.46	.020	.3	.010	.023	84	88	.11	46
SEP. 11...	17	.2	.33	.003	.6	.029	.10	92	93	.13	53

[illegible] TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.									
01...	6	.3	--	20	140	--	1.5	200	2300
NOV.									
08...	8	.5	6.7	45	45	20	2.2	30	3700
12...	--	--	--	--	--	--	--	--	--
24...	8	.7	--	30	30	20	1.7	210	5200
JAN.									
12...	7	.1	--	--	--	20	1.8	600	10000
FEB.									
07...	7	.2	--	150	300	40	3.4	2700	32000
APR.									
05...	5	.2	--	60	25	20	2.1	--	3500
MAY									
08...	5	.3	--	50	30	27	1.8	--	6000
15...	10	.2	--	55	55	10	1.6	--	13000
JUNE									
16...	8	.4	--	50	10	26	1.1	--	14000
JULY									
31...	5	.5	--	25	30	22	1.8	200	7000
AUG.									
17...	18	.6	--	25	20	13	--	11	1300
SEP.									
11...	14	.5	--	15	25	12	1.7	18	5700

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.								
12...	1	<1	<10	--	<1	<1	<.5	<10
MAY								
15...	<1	<1	--	<10	<1	1	<.5	20

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
MAY							
15...	3	<1	8	7	10	<.05	20
JULY							
31...	3	<1	4	3	4	<.05	13

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
01...	46	0	116	7.4	25.0	7.4
NOV.						
08...	--	--	132	--	14.0	10.2
24...	28	0	122	6.9	11.0	10.7
JAN.						
12...	30	0	72	6.8	9.5	10.0
FEB.						
07...	49	0	112	7.0	7.5	11.6
APR.						
05...	32	0	86	7.0	13.5	9.6
MAY						
08...	44	0	120	7.2	20.5	8.0
15...	49	0	124	7.6	19.5	7.6
JUNE						
16...	50	0	124	7.6	26.5	6.5
JULY						
31...	44	0	124	7.4	27.0	7.7
AUG.						
17...	35	0	116	7.7	29.5	7.4
SEP.						
11...	49	0	160	7.2	20.0	6.3

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	104	95	99	---	---	---	105	101	103	110	91	97
2	98	92	96	---	---	---	114	101	106	140	110	127
3	104	97	99	---	---	---	181	123	150	142	92	115
4	144	105	122	---	---	---	153	110	120	113	92	100
5	125	103	114	---	---	---	173	140	161	91	83	88
6	119	103	108	---	---	---	147	109	127	83	79	80
7	143	121	133	---	---	---	114	101	108	78	68	73
8	145	137	141	---	---	---	107	100	103	69	66	67
9	137	126	131	---	---	---	100	77	87	66	63	65
10	127	119	123	---	---	---	90	77	81	72	62	68
11	125	121	124	---	---	---	96	85	88	67	61	64
12	126	121	122	---	---	---	103	82	91	71	67	69
13	130	121	127	---	---	---	97	82	89	76	68	72
14	153	129	140	---	---	---	104	95	100	80	75	77
15	145	123	132	---	---	---	107	87	93	85	81	83
16	122	114	118	---	---	---	110	87	91	86	82	84
17	114	112	113	---	---	---	113	95	102	82	76	79
18	115	113	114	---	---	---	104	92	98	79	75	77
19	121	115	118	---	---	---	96	87	91	83	78	80
20	130	121	125	---	---	---	87	82	84	87	83	85
21	133	129	131	---	---	---	83	81	82	87	85	86
22	142	129	135	---	---	---	80	74	77	88	85	86
23	153	141	149	---	---	---	78	73	76	88	86	87
24	152	130	138	122	119	121	80	77	79	88	85	86
25	131	116	122	124	119	121	82	79	81	95	87	90
26	137	104	124	140	129	130	83	82	82	96	88	93
27	135	102	114	127	105	115	85	83	84	102	96	98
28	130	119	126	113	105	109	88	84	86	98	94	96
29	120	114	119	106	103	104	89	84	88	121	92	98
30	---	---	---	115	105	110	97	85	90	132	117	127
31	---	---	---	---	---	---	94	90	93	142	110	127
MONTH	153	92	123	---	---	---	181	73	97	142	62	87

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	123	115	119	108	103	106	105	93	101	92	89	91
2	115	102	110	147	106	126	93	90	91	107	93	97
3	105	100	103	160	131	149	---	---	---	127	110	122
4	101	98	99	151	112	133	---	---	---	126	113	119
5	99	96	97	111	101	106	---	---	---	157	134	149
6	109	93	99	106	100	103	143	109	125	195	132	163
7	110	106	109	101	93	97	107	90	97	136	120	128
8	105	102	104	117	93	106	92	90	91	127	110	122
9	106	105	105	114	109	111	90	88	88	195	113	163
10	106	103	105	125	97	111	89	87	88	170	125	148
11	103	96	98	96	86	90	90	88	89	123	96	107
12	106	93	100	96	89	94	88	86	86	95	92	93
13	105	100	103	97	95	95	91	86	89	108	94	96
14	115	103	109	98	93	95	93	90	91	116	101	107
15	115	105	110	93	90	91	96	93	94	142	114	120
16	115	105	111	95	91	93	98	96	97	133	119	123
17	114	101	106	98	93	95	100	97	98	114	107	110
18	120	102	113	152	98	106	157	99	111	122	109	117
19	122	110	115	144	119	130	193	121	151	121	111	114
20	121	112	118	119	104	109	121	98	109	114	112	113
21	121	106	112	107	102	105	100	95	97	116	114	115
22	107	103	105	107	101	103	115	98	101	117	107	111
23	104	93	98	105	99	101	149	95	108	110	107	108
24	98	96	96	105	102	104	143	96	116	122	111	119
25	98	96	97	109	103	105	97	94	95	121	115	117
26	107	99	102	117	99	106	96	86	90	117	115	116
27	107	102	105	120	100	106	83	79	81	117	113	115
28	107	100	104	133	104	122	86	77	81	116	111	113
29	104	101	102	151	129	142	81	77	78	140	114	129
30	---	---	---	114	112	112	89	82	86	137	105	116
31	---	---	---	128	115	121	---	---	---	107	103	106
MONTH	123	93	105	160	86	109	193	77	97	195	89	118

02444160 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	110	107	108	163	109	123	146	117	132	165	115	127
2	130	110	121	177	137	156	176	146	161	158	147	156
3	121	114	116	139	127	131	161	141	152	158	137	145
4	120	114	118	152	119	129	156	140	150	146	137	144
5	130	121	129	143	113	126	152	129	142	137	113	121
6	139	126	132	153	113	133	120	110	111	131	117	122
7	123	119	121	181	142	162	116	101	107	136	132	136
8	122	119	121	169	136	148	130	98	116	133	125	129
9	133	122	128	153	126	136	143	117	125	141	128	133
10	137	135	136	156	135	140	140	113	126	143	130	141
11	138	136	137	133	116	119	109	96	108	147	129	144
12	141	138	139	121	115	118	110	108	113	147	132	141
13	142	139	141	121	115	118	129	96	102	135	130	132
14	145	141	143	125	119	121	119	88	98	149	130	141
15	163	141	147	129	123	125	146	117	133	153	146	148
16	145	138	141	138	120	130	116	106	108	161	156	158
17	---	---	---	137	136	135	126	108	115	158	156	156
18	---	---	---	138	135	136	123	113	116	168	156	161
19	---	---	---	163	130	139	123	115	122	176	168	170
20	214	143	170	169	143	165	165	129	147	168	136	148
21	216	126	167	158	149	151	148	127	140	196	135	148
22	122	108	114	158	149	153	147	136	139	205	162	169
23	121	105	110	163	149	156	176	116	126	158	132	146
24	126	113	119	168	161	164	116	102	107	131	108	118
25	157	111	126	186	160	173	105	92	97	118	107	111
26	135	112	118	175	159	167	92	89	91	121	113	119
27	132	116	121	158	149	152	92	85	88	113	105	108
28	202	119	172	152	143	147	101	86	96	110	101	105
29	222	102	208	177	145	163	101	97	98	113	109	111
30	180	117	133	164	143	160	142	100	101	116	106	111
31	---	---	---	121	104	110	114	100	106	---	---	---
MONTH	222	105	135	181	104	141	176	85	110	205	101	130

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	24.5	---	---	10.5	9.5	14.0	13.5	9.0	8.0	15.0	14.0
2	25.5	24.5	---	---	9.5	9.0	14.0	12.5	8.0	7.0	15.0	14.0
3	25.5	24.5	---	---	9.0	7.5	12.5	11.5	7.0	6.5	14.0	12.5
4	26.0	24.5	---	---	8.0	7.5	10.5	10.0	6.5	6.0	12.5	11.0
5	25.0	24.5	---	---	7.5	7.0	10.5	9.0	6.5	5.5	11.0	10.0
6	25.0	24.5	---	---	9.5	7.5	9.0	8.0	7.0	6.0	10.0	9.5
7	24.5	22.5	---	---	10.5	9.5	8.0	7.0	7.5	6.5	10.0	9.5
8	23.0	22.0	---	---	11.0	10.5	7.0	6.5	6.5	6.0	11.5	10.5
9	23.0	22.5	---	---	11.5	11.0	6.5	6.5	6.5	6.5	12.0	11.5
10	22.5	20.5	---	---	13.0	11.5	7.5	7.0	6.5	6.5	12.0	11.5
11	21.0	19.5	---	---	13.5	13.0	8.5	7.5	7.0	6.5	12.5	11.5
12	20.5	19.5	---	---	13.5	13.5	9.5	8.5	7.5	7.0	13.0	12.0
13	20.0	19.5	---	---	13.5	13.5	11.5	10.5	7.5	7.0	14.0	13.0
14	20.5	19.5	---	---	14.0	13.5	11.0	11.0	8.0	7.0	14.5	14.0
15	21.5	20.0	---	---	14.0	14.0	11.0	9.5	8.0	6.0	15.5	14.0
16	22.0	20.5	---	---	15.0	14.0	9.5	9.0	8.5	8.0	16.0	15.0
17	22.5	21.0	---	---	15.0	14.5	8.0	8.5	9.0	8.5	16.0	15.0
18	22.5	21.5	---	---	14.5	13.0	6.5	6.0	9.5	9.0	15.5	15.0
19	22.5	21.0	---	---	13.0	11.5	8.5	6.0	9.0	8.5	15.5	14.5
20	21.5	21.0	---	---	11.5	11.0	7.5	6.5	8.5	8.0	16.0	15.0
21	21.0	20.5	---	---	11.5	11.0	9.0	7.5	9.5	8.5	16.0	15.5
22	21.0	20.5	---	---	12.0	11.5	10.5	9.0	9.5	9.5	16.5	15.0
23	22.0	20.5	---	---	11.5	11.5	12.0	10.5	11.0	9.5	16.0	15.5
24	21.0	20.5	11.0	11.0	11.5	11.5	13.5	12.0	12.5	10.5	15.5	14.5
25	21.0	20.5	11.0	10.5	12.0	11.5	14.0	13.0	13.5	12.0	14.0	13.0
26	20.5	20.0	10.5	10.0	12.0	11.5	13.0	13.0	14.0	13.0	13.0	13.0
27	20.5	20.0	11.0	10.0	12.5	12.0	13.0	13.0	13.5	12.5	13.5	13.0
28	20.5	20.0	10.0	9.5	13.0	12.5	13.0	12.5	14.5	13.0	14.5	13.5
29	20.5	20.0	11.0	10.0	13.5	13.0	12.5	11.5	15.0	13.5	14.5	14.0
30	---	---	10.5	10.0	14.5	13.5	11.5	9.0	---	---	15.0	14.5
31	---	---	---	---	14.5	14.0	9.5	9.0	---	---	14.0	13.5
MONTH	26.0	19.5	---	---	15.0	7.0	14.0	6.0	15.0	5.5	16.5	9.5

MOBILE RIVER BASIN

02444000 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	20.5	18.5	24.5	23.5	26.5	25.5	29.0	27.0	29.5	26.5
2	14.0	14.0	20.5	19.5	24.5	23.0	27.0	25.5	29.0	27.5	29.5	26.5
3	---	---	21.0	19.5	25.0	23.5	28.0	26.0	29.5	27.5	29.5	27.0
4	---	---	21.0	19.5	25.5	24.5	27.0	26.0	29.5	28.0	28.5	27.0
5	---	---	21.0	20.0	26.5	25.0	26.5	25.5	30.0	28.5	27.5	26.5
6	15.5	15.0	21.0	20.0	27.0	25.5	26.0	25.0	30.5	28.5	28.0	26.0
7	16.5	15.0	21.0	20.5	29.0	26.5	26.0	24.0	31.0	29.5	28.5	26.0
8	16.5	15.5	22.0	20.0	28.5	26.5	26.0	23.5	31.5	29.5	29.0	26.5
9	16.5	15.5	21.0	20.0	29.0	27.5	26.5	24.5	31.5	28.5	29.5	27.0
10	17.0	16.0	20.5	19.5	28.5	27.5	26.5	25.0	29.5	28.5	29.5	27.0
11	17.5	16.5	20.0	19.0	27.5	26.5	27.0	26.0	29.5	28.0	29.5	27.0
12	18.5	17.0	19.0	18.5	27.5	26.5	28.0	26.5	29.5	28.0	29.5	26.5
13	19.5	18.0	19.0	18.5	28.0	26.5	28.5	26.5	29.5	28.0	29.5	26.5
14	20.5	19.0	19.5	19.0	28.5	27.0	28.5	27.0	30.0	28.0	29.5	26.5
15	21.5	20.0	20.0	19.5	28.0	26.5	28.5	27.0	30.5	28.5	29.5	26.5
16	22.5	20.5	21.0	20.0	26.5	26.5	29.0	27.0	30.5	29.0	29.0	27.0
17	22.5	21.0	22.0	20.5	---	---	29.5	27.5	30.5	29.5	29.0	27.0
18	22.5	21.0	23.0	21.0	---	---	30.5	28.0	31.0	29.5	28.0	27.0
19	22.5	21.0	23.5	21.5	---	---	31.0	29.0	31.5	30.0	28.5	26.5
20	22.0	21.0	24.0	21.5	27.0	27.0	31.0	29.5	32.0	30.0	28.5	27.0
21	22.0	21.5	24.0	22.0	27.5	26.0	31.5	29.5	31.5	29.0	28.0	26.0
22	22.5	21.0	25.0	22.0	27.0	26.0	31.5	29.5	31.0	28.5	27.0	25.5
23	21.5	20.5	25.0	23.0	27.0	25.5	31.5	29.5	30.5	28.0	26.5	25.0
24	20.5	20.0	25.0	23.5	27.0	25.5	32.0	29.5	30.5	28.0	27.0	25.5
25	20.0	19.0	25.5	23.5	26.5	25.0	32.5	30.0	30.5	28.0	27.0	26.0
26	19.0	18.0	26.0	24.5	26.0	25.0	32.0	30.0	31.0	28.5	27.0	26.0
27	18.0	17.5	26.0	24.5	27.5	26.0	31.0	30.0	31.0	28.5	27.0	26.0
28	18.0	17.5	26.0	24.5	27.0	25.5	31.0	30.0	29.5	28.5	27.5	26.5
29	18.0	17.5	26.0	24.0	26.0	25.5	30.0	29.0	29.0	27.5	27.5	26.5
30	19.5	17.5	25.5	24.5	27.0	25.0	29.5	27.5	29.0	27.0	26.5	24.0
31	---	---	25.5	24.5	---	---	27.5	26.5	29.5	27.0	---	---
MONTH	22.5	13.5	26.0	18.5	29.0	23.0	32.5	23.5	32.0	27.0	29.5	24.0

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.

LOCATION.--Lat 32°49'30", long 88°09'24", in SE¼ sec. 2, T. 21 N., R. 2 W., Sumter County, at gaging station on downstream side of bridge on State Highway 39 at Gainesville, 2 miles downstream from Noxubee River, and at mile 234.4.

DRAINAGE AREA.--8,700 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1967, July 1971 to September 1972.
Water temperatures: October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 35.0°C July 25; minimum, 7.5°C on several days during January and February.

Period of record:
Water temperatures: Maximum (1962-69, 1971-72), 35.0°C July 25, 1972; minimum, 2.0°C Feb. 1, 1966.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968. No specific conductance data Oct. 1, 4-10, 12 - Nov. 8, 11-24, 26-29, Dec. 23 - Jan. 12, May 2-7, Sept. 12-30 because of recorder malfunction. No temperature data Nov. 25-29, Dec. 6-9, Jan. 12-13, and Mar. 14 - Apr. 4 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT.											
01...	3180	5.6	150	10	17	1.4	3.7	2.1	--	--	7.6
NOV.											
08...	2680	8.3	210	20	13	1.6	6.7	2.3	39	0	10
12...	1980	--	--	--	--	--	--	--	--	--	--
24...	1800	8.1	380	40	9.9	1.4	6.0	2.0	--	--	9.8
JAN.											
12...	85000	4.7	60	20	9.9	.9	1.5	1.6	--	--	5.2
FEB.											
07...	32700	5.7	180	30	18	1.1	2.6	1.3	52	0	9.2
APR.											
05...	10900	6.4	300	30	11	1.3	2.9	1.1	--	--	6.4
MAY											
08...	6370	7.8	500	5	16	1.6	4.1	1.6	--	--	10
15...	14900	6.9	30	20	15	1.2	3.5	1.7	--	--	8.8
JUNE											
16...	1700	8.1	10	6	23	1.9	5.5	1.5	--	--	8.0
JULY											
31...	2480	6.7	10	7	20	1.5	6.2	1.9	--	--	4.8
AUG.											
17...	1550	8.2	10	22	17	1.4	7.0	2.1	--	--	8.0
SEP.											
11...	1160	7.4	50	16	18	1.7	8.9	2.8	--	--	8.2

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)
OCT.											
01...	5.5	.1	--	.003	.09	.016	.036	78	70	.11	49
NOV.											
08...	9.4	.1	.55	.009	.05	.049	.12	86	71	.12	39
12...	--	--	--	--	--	--	--	--	--	--	--
24...	8.7	.2	.18	.006	.2	.040	.25	78	61	.10	31
JAN.											
12...	2.3	.1	.46	.006	.09	.068	.16	50	41	.07	28
FEB.											
07...	3.8	.2	.95	.003	.3	.042	.59	78	69	.11	50
APR.											
05...	3.6	.0	.33	.009	.07	.016	.095	66	51	.09	33
MAY											
08...	4.4	.2	.42	.020	.3	.020	.12	71	71	.10	47
15...	4.4	.1	.53	.012	.5	.046	.17	--	64	.09	43
JUNE											
16...	14	.2	.26	.000	.09	.003	.046	--	93	.13	66
JULY											
31...	8.4	.5	.53	.006	.2	.026	.20	93	83	.13	56
AUG.											
17...	10	.1	.26	.020	.3	.003	.065	81	80	.11	49
SEP.											
11...	13	.2	.27	.006	.07	.016	.10	89	87	.12	52

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.									
01...	5	.2	--	20	70	--	1.0	76	700
NOV.									
08...	7	.5	7.2	40	40	16	1.8	30	430
12...	--	--	--	--	--	--	--	--	--
24...	7	.5	--	22	25	5	1.5	53	770
JAN.									
12...	5	.1	--	--	--	24	1.6	1000	9000
FEB.									
07...	7	.2	--	150	280	45	4.2	9300	43000
APR.									
05...	6	.2	--	60	20	21	2.2	--	2500
MAY									
08...	8	.3	--	50	30	26	1.3	--	6300
15...	10	.2	--	70	50	23	1.2	--	9300
JUNE									
16...	16	.3	--	10	10	13	1.3	--	2000
JULY									
31...	6	.4	--	20	110	19	1.6	2300	9100
AUG.									
17...	8	.4	--	15	30	13	--	12	400
SEP.									
11...	8	.5	--	30	45	13	1.8	11	600

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.								
12...	<1	<1	<10	--	<1	<1	<.5	<10
MAY								
15...	<1	<1	--	<10	<1	1	<.5	10

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
MAY							
15...	<1	<1	1	2	1	<.05	10
JULY							
31...	2	<1	2	2	2	<.05	8

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
01...	54	0	130	7.6	25.0	7.6
NOV.						
08...	--	--	120	--	14.5	10.4
24...	29	0	110	6.9	11.5	10.7
JAN.						
12...	28	0	69	6.7	10.5	9.5
FEB.						
07...	--	--	114	7.7	8.0	11.2
APR.						
05...	32	0	100	7.0	14.5	9.8
MAY						
08...	49	0	128	7.5	21.0	8.2
15...	42	0	112	7.6	20.0	7.2
JUNE						
16...	63	0	134	7.9	27.5	6.7
JULY						
31...	72	0	155	8.0	27.5	6.2
AUG.						
17...	50	0	141	7.8	29.5	7.8
SEP.						
11 ...	53	0	156	8.0	29.0	8.4

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	70	68	69	---	---	---
2	126	114	120	---	---	---	72	66	70	---	---	---
3	113	102	107	---	---	---	127	66	94	---	---	---
4	---	---	---	---	---	---	134	103	119	---	---	---
5	---	---	---	---	---	---	121	85	102	---	---	---
6	---	---	---	---	---	---	130	96	117	---	---	---
7	---	---	---	---	---	---	91	74	79	---	---	---
8	---	---	---	---	---	---	75	69	72	---	---	---
9	---	---	---	102	87	95	69	60	65	---	---	---
10	---	---	---	88	76	82	59	52	54	---	---	---
11	149	141	145	---	---	---	75	56	67	---	---	---
12	---	---	---	---	---	---	80	68	74	---	---	---
13	---	---	---	---	---	---	74	67	69	65	58	61
14	---	---	---	---	---	---	81	68	74	66	63	65
15	---	---	---	---	---	---	80	71	76	67	65	66
16	---	---	---	---	---	---	73	67	70	68	66	67
17	---	---	---	---	---	---	96	73	82	69	67	68
18	---	---	---	---	---	---	103	68	94	67	66	66
19	---	---	---	---	---	---	64	60	63	72	66	68
20	---	---	---	---	---	---	71	60	66	81	72	77
21	---	---	---	---	---	---	70	67	69	88	81	85
22	---	---	---	---	---	---	116	70	93	90	85	88
23	---	---	---	---	---	---	---	---	97	92	87	90
24	---	---	---	---	---	---	---	---	---	96	90	93
25	---	---	---	78	73	76	---	---	---	96	92	94
26	---	---	---	---	---	---	---	---	---	98	94	96
27	---	---	---	---	---	---	---	---	---	100	95	97
28	---	---	---	---	---	---	---	---	---	103	100	102
29	---	---	---	---	---	---	---	---	---	110	96	101
30	---	---	---	73	70	72	---	---	---	145	117	136
31	---	---	---	---	---	---	---	---	---	145	122	134
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	145	115	130	135	125	128	146	123	132	92	85	88
2	115	105	110	164	134	149	133	119	128	---	---	---
3	120	103	111	164	150	156	117	102	110	---	---	---
4	113	99	104	179	150	164	102	97	99	---	---	---
5	99	97	98	150	126	137	99	94	97	---	---	---
6	122	95	102	127	123	125	114	94	103	---	---	---
7	114	103	107	128	106	116	141	110	126	---	---	---
8	102	92	97	126	103	116	114	103	107	131	127	129
9	104	91	97	121	109	115	109	102	106	132	110	120
10	111	101	104	120	112	115	108	101	104	192	149	176
11	110	101	106	120	94	103	104	99	102	157	111	136
12	132	99	107	97	91	94	110	102	104	110	102	107
13	134	117	126	98	97	97	110	99	102	110	100	104
14	121	110	115	100	97	98	106	102	103	119	108	113
15	127	116	121	100	98	99	104	101	102	118	107	113
16	124	117	120	104	98	101	106	105	106	129	116	124
17	135	118	129	104	102	103	109	106	108	122	78	102
18	156	122	137	114	103	107	108	102	106	108	71	88
19	146	133	139	155	115	131	164	109	127	120	105	113
20	135	123	131	153	122	130	177	137	158	111	97	103
21	139	118	130	125	117	121	139	117	126	114	95	106
22	131	121	126	122	115	118	122	113	116	112	108	110
23	123	115	120	121	115	118	129	113	119	112	104	109
24	123	116	119	121	111	116	152	104	123	115	101	105
25	121	115	118	115	108	112	129	99	114	122	109	114
26	125	116	119	114	108	110	100	94	97	125	122	124
27	145	129	137	111	103	107	94	84	88	126	102	117
28	144	130	136	122	106	115	88	83	85	122	114	120
29	137	127	132	147	109	130	86	81	83	118	112	114
30	---	---	---	139	114	123	85	79	82	128	112	118
31	---	---	---	159	141	151	---	---	---	138	129	133
MONTH	156	91	118	179	91	124	177	79	109	192	71	115

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	129	113	120	161	118	132	163	149	157	147	142	145
2	119	114	116	138	114	123	148	122	136	147	139	144
3	133	120	125	159	137	147	144	123	132	143	139	141
4	137	127	130	136	126	131	147	127	137	147	142	144
5	134	126	130	134	74	118	130	98	119	159	146	152
6	132	119	126	91	75	86	119	101	112	171	160	165
7	147	127	136	112	90	100	127	118	123	175	158	169
8	160	146	153	131	113	119	118	115	116	159	137	151
9	160	157	159	130	123	127	117	89	96	157	126	140
10	163	154	159	130	116	123	98	88	91	151	146	148
11	168	160	165	118	69	82	108	93	102	155	152	153
12	176	167	171	146	73	129	109	107	108	---	---	---
13	176	140	151	129	119	123	110	103	106	---	---	---
14	142	129	133	130	115	122	108	97	103	---	---	---
15	132	128	131	129	122	127	102	84	95	---	---	---
16	135	130	133	134	121	128	139	86	132	---	---	---
17	136	131	134	133	125	128	158	133	142	---	---	---
18	140	134	137	136	129	132	161	150	155	---	---	---
19	132	120	125	136	131	133	154	144	148	---	---	---
20	122	119	121	135	129	133	160	155	158	---	---	---
21	121	106	114	132	127	129	158	153	156	---	---	---
22	185	115	150	131	79	116	158	151	156	---	---	---
23	185	141	163	82	77	79	182	160	172	---	---	---
24	137	117	125	143	78	105	183	169	176	---	---	---
25	122	109	114	146	140	144	176	172	174	---	---	---
26	143	112	127	143	131	136	175	163	168	---	---	---
27	144	118	130	142	133	138	164	147	156	---	---	---
28	136	109	118	148	118	142	150	145	147	---	---	---
29	174	120	151	111	84	97	145	142	144	---	---	---
30	196	168	186	83	79	80	144	137	140	---	---	---
31	---	---	---	162	78	130	146	139	141	---	---	---
MONTH	196	106	138	162	69	121	183	84	135	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	25.0	21.0	21.0	12.5	12.0	15.0	14.0	9.0	8.5	15.5	15.0
2	25.5	25.0	21.0	21.0	12.0	11.5	14.0	13.5	8.5	8.0	15.5	15.5
3	25.5	25.5	21.0	20.5	11.5	10.0	13.5	12.0	8.0	8.0	15.5	14.0
4	25.5	25.5	20.5	19.0	10.5	10.0	12.0	12.0	8.0	7.5	14.0	13.0
5	26.0	25.5	19.0	17.5	10.5	10.0	12.0	11.0	7.5	7.5	13.0	12.0
6	26.0	25.5	18.0	17.5	---	---	11.0	10.0	7.5	7.5	12.0	11.0
7	25.5	24.5	17.5	16.5	---	---	10.0	8.5	8.5	7.5	11.0	11.0
8	24.5	23.5	16.5	15.5	---	---	8.5	8.0	8.5	8.0	12.5	11.0
9	23.5	23.0	15.5	14.5	11.5	11.5	8.0	7.5	8.0	7.5	13.0	12.5
10	23.0	22.0	14.5	14.0	12.5	11.5	8.0	7.5	7.5	7.5	13.0	13.0
11	22.0	21.0	14.0	13.5	14.0	12.5	9.5	8.0	7.5	7.5	13.0	13.0
12	21.0	20.5	13.5	13.0	14.5	14.0	---	---	8.0	7.5	13.0	13.0
13	20.5	20.5	13.5	13.5	14.5	14.5	---	---	8.5	8.0	14.0	13.0
14	20.5	20.0	14.0	13.5	15.0	14.5	14.5	14.5	8.5	8.5	---	---
15	20.0	19.5	14.5	14.0	15.0	15.0	14.5	14.0	8.5	8.5	---	---
16	20.5	20.0	14.5	14.5	15.5	15.0	14.0	12.0	9.0	8.5	---	---
17	21.0	20.5	14.5	14.5	16.0	15.5	12.0	10.5	9.5	9.0	---	---
18	21.0	20.5	15.0	14.5	16.0	15.5	10.5	9.5	10.0	9.5	---	---
19	21.0	21.0	15.5	15.0	15.5	14.0	9.5	9.0	10.0	10.0	---	---
20	21.0	21.0	15.5	15.0	14.0	13.0	9.0	9.0	10.0	9.5	---	---
21	21.0	20.5	15.5	15.0	13.0	13.0	10.0	9.0	9.5	9.5	---	---
22	20.5	20.5	15.0	14.5	13.0	13.0	11.5	10.0	10.0	9.5	---	---
23	20.5	20.5	14.5	13.5	13.0	13.0	13.0	11.5	11.0	10.0	---	---
24	20.5	20.5	13.5	13.0	13.0	13.0	14.0	12.0	12.5	11.0	---	---
25	20.5	20.5	---	---	13.0	13.0	14.5	14.0	13.5	12.5	---	---
26	21.0	20.5	---	---	13.0	13.0	14.5	14.5	14.5	13.5	---	---
27	20.5	20.0	---	---	13.0	13.0	14.5	14.0	14.5	14.0	---	---
28	20.5	20.0	---	---	13.5	13.0	14.5	14.0	14.5	14.0	---	---
29	20.5	20.0	---	---	14.0	13.5	14.5	14.0	15.0	14.5	---	---
30	20.5	20.5	12.5	12.5	15.0	14.0	14.0	10.5	---	---	---	---
31	21.0	20.5	---	---	15.0	15.0	10.5	9.0	---	---	---	---
MONTH	26.0	19.5	21.0	12.5	16.0	10.0	15.0	7.5	15.0	7.5	---	---

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	19.0	18.0	25.0	24.0	28.5	28.0	29.5	29.0	28.5	28.0
2	---	---	20.0	19.0	24.5	24.0	28.0	28.0	30.0	29.5	30.0	27.5
3	---	---	20.5	20.0	24.5	24.0	29.0	28.0	30.0	29.0	29.0	27.5
4	---	---	20.5	20.0	25.0	24.5	29.0	29.0	30.5	30.0	29.5	28.5
5	14.5	14.5	20.5	20.0	26.0	25.0	29.0	28.0	31.0	30.0	29.0	28.5
6	14.5	14.5	21.0	20.5	26.5	25.5	28.0	28.0	31.0	30.5	29.0	28.0
7	15.5	14.5	21.0	21.0	28.0	26.5	28.0	27.0	31.5	31.0	29.0	28.0
8	15.5	15.5	21.0	20.5	28.5	28.0	28.0	27.0	32.0	31.5	30.0	28.0
9	15.5	15.5	21.0	21.0	29.0	28.5	28.0	27.5	32.0	31.5	29.5	28.5
10	16.0	15.5	21.0	20.5	29.0	28.5	28.0	27.5	31.5	30.0	29.5	29.0
11	16.5	16.0	20.5	20.0	28.5	28.0	28.5	28.0	30.0	29.0	29.5	29.0
12	17.0	16.5	20.0	19.0	28.0	27.5	29.5	28.5	29.0	28.0	29.5	28.5
13	18.5	17.0	19.0	19.0	28.0	27.5	29.5	29.0	29.0	28.5	30.0	29.0
14	19.5	18.5	19.0	19.0	28.5	28.0	30.0	29.5	29.0	28.5	30.5	29.0
15	20.5	19.5	20.0	19.0	28.5	28.5	30.0	29.5	29.5	28.5	31.0	29.5
16	21.5	20.5	20.5	20.0	28.5	28.0	30.0	29.0	30.0	29.5	30.0	29.5
17	21.5	21.0	21.0	20.5	28.0	27.5	30.5	29.5	30.0	29.5	30.0	29.5
18	21.5	21.0	21.5	21.0	28.5	27.5	31.0	30.0	31.0	30.0	29.5	29.5
19	22.0	21.5	22.0	21.5	28.5	28.0	32.0	31.0	31.0	30.0	30.0	29.0
20	22.0	21.5	22.5	22.0	28.0	27.5	32.0	31.5	31.0	30.5	29.5	28.5
21	22.0	22.0	23.0	22.0	28.5	27.5	32.5	32.0	31.0	30.5	29.5	28.5
22	22.0	21.5	23.0	22.5	28.5	28.0	33.5	32.5	31.0	30.5	29.5	28.5
23	22.0	21.5	23.5	23.0	28.0	27.5	34.0	33.5	30.5	30.0	28.5	28.0
24	21.5	21.0	23.5	23.5	28.0	27.5	34.0	34.0	30.5	29.5	28.0	27.0
25	21.0	20.0	24.5	23.5	28.0	27.5	35.0	34.0	31.0	29.5	27.5	27.0
26	20.0	19.0	25.0	24.5	28.5	28.0	34.0	33.0	31.0	30.0	27.5	27.5
27	19.0	18.0	25.5	25.0	28.5	28.0	33.5	33.0	30.5	30.0	28.0	27.5
28	18.0	18.0	25.5	25.0	28.5	28.5	33.5	33.0	30.0	30.0	28.5	28.0
29	18.0	17.5	25.5	25.0	29.5	29.0	33.0	32.5	30.0	29.0	29.0	28.5
30	18.0	17.5	25.5	25.5	29.0	28.0	32.5	28.0	29.0	28.0	28.5	26.5
31	---	---	25.5	25.0	---	---	29.0	27.5	28.5	28.0	---	---
MONTH	22.0	14.5	25.5	18.0	29.5	24.0	35.0	27.0	32.0	28.0	31.0	26.5

02450000 MULBERRY FORK NEAR GARDEN CITY, ALA.

LOCATION.--Lat 33°59'42", long 86°44'56", in NE¼ sec. 16, T. 12 S., R. 2 W., Blount County, at gaging station on left bank near downstream side of bridge on U.S. Highway 31 (old), 1,000 ft downstream from Louisville & Nashville Railroad bridge, 1 mile southwest of Garden City, 3.5 miles downstream from Mud Creek, and at mile 79.2.

DRAINAGE AREA.--368 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 22...	42	--	--	--	--	--	--	--	52	0	--	8.0
JULY 25...	44	2.5	140	49	7.8	1.8	4.6	5.1	--	--	8.4	4.8
AUG. 08...	27	6.0	150	110	12	2.5	4.1	2.8	--	--	6.6	4.0
SEP. 26...	26	3.3	290	170	18	2.2	4.4	4.6	--	--	13	4.4

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT. 22...	--	--	--	--	--	50	8	--	--	6.7
JULY 25...	.2	1.1	63	54	.09	27	5	.4	--	--
AUG. 08...	.1	.5	62	61	.08	41	6	.3	--	--
SEP. 26...	.2	.2	88	79	.12	54	10	.3	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 22...	--	--	--	122	--	20.0	--
NOV. 29...	41	--	--	165	--	10.0	--
MAY 03...	258	--	--	--	--	19.0	--
23...	164	--	--	--	--	24.0	--
JULY 20...	24	--	--	165	--	28.0	--
25...	--	26	0	85	6.6	27.0	6.1
AUG. 08...	--	43	0	102	6.6	29.0	7.8
SEP. 26...	--	54	0	138	7.0	24.5	6.6

02450250 SIPSEY FORK NEAR GRAYSON, ALA.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°17'07", long 87°23'56", in NW¼ sec. 8, T. 9 S., R. 8 W., Winston County, at gaging station 0.1 mile downstream from bridge on Cranal Road, 0.5 mile downstream from Borden Creek, 4.5 miles west of Grayson, and 14 miles northeast of Haleyville.

DRAINAGE AREA.--91.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 14...	11	6.7	--	--	16	1.5	1.4	1.2	--	--	2.4	2.0
FEB. 03...	142	5.7	40	--	12	1.2	1.1	.4	--	--	4.4	1.4
MAR. 17...	125	6.6	10	19	12	1.1	1.0	.5	7	0	3.2	1.2
MAY 26...	105	6.7	160	29	17	1.5	1.1	.8	--	--	3.4	1.2
JULY 28...	6.4	5.5	430	69	10	1.3	1.2	1.0	--	--	4.4	1.2
SEP. 29...	26	5.2	50	40	20	1.7	1.0	1.6	--	--	6.2	1.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 14...	.1	.02	61	60	.08	46	0	.1	--	--	58	800
FEB. 03...	.1	.02	50	45	.07	35	4	.1	2	2.0	--	--
MAR. 17...	.1	.00	45	45	.06	35	4	.1	--	1.4	--	100
MAY 26...	.1	.02	56	59	.08	49	3	.1	--	--	--	2000
JULY 28...	.1	.00	46	42	.06	31	3	.1	--	1.0	--	6300
SEP. 29...	.1	.05	78	68	.11	57	8	.1	--	2.3	11000	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 14...	--	58	0	95	7.1	14.0	9.7
NOV. 12...	16	--	--	--	--	10.0	--
JAN. 04...	5910	--	--	--	--	11.0	--
24...	112	--	--	--	--	13.5	--
FEB. 03...	--	38	0	73	6.8	8.0	11.6
MAR. 17...	--	--	--	78	--	10.5	--
20...	118	--	--	80	--	14.0	--
MAY 12...	58	--	--	75	--	15.0	--
26...	--	56	0	100	7.7	17.0	4.7
JULY 12...	6.8	--	--	80	--	24.0	--
28...	--	34	0	68	6.5	24.0	7.2
AUG. 03...	17	--	--	--	--	24.0	--
SEP. 29...	--	61	0	114	6.9	22.0	8.0

02450250 SIPSEY FORK NEAR GRAYSON, ALA.--Continued
(Hydrologic bench-mark station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JULY 28...	450	70	<.01	<1	<1	<10	2	<1	1	70

PESTICIDES ANALYSES

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)
OCT. 14...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<1
SEP. 29...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<1

DATE	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
OCT. 14...	<.2	<.2	<.2	.00	.00	.00	.00	.00	.00	.00
SEP. 29...	--	--	--	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
OCT. 14...	.00	.00	.0	.00	.00	.00	.00	--	--	--
SEP. 29...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (PLAN-CHET COUNT) (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT. 14...	<.7	<.4	2.1	2.6	<.4	--	.03	.05
SEP. 29...	1.4	4.4	2.7	3.4	2.1	<.1	--	.05

02453000 BLACKWATER CREEK NEAR MANCHESTER, ALA.

LOCATION.--Lat 33°56'30", long 87°15'25", in SE¼ sec. 15, T. 13 S., R. 7 W., Walker County at gaging station on right bank at downstream side of bridge on county road, 0.2 mile downstream from small unnamed tributary, 2 miles west of Manchester, and 5.5 miles north of Jasper.

DRAINAGE AREA.--188 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971 (partial-record station), October 1971 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
14...	17	2.6	150	60	9.7	8.6	2.9	2.5	20	0	46	1.6
21...	12	--	--	--	--	--	--	--	24	0	--	3.0
FEB.												
01...	367	3.6	180	110	4.1	3.4	2.1	1.1	16	0	16	2.0
MAR.												
15...	332	5.5	180	20	3.2	3.0	1.9	.8	--	--	14	2.2
APR.												
12...	193	4.2	30	82	3.0	3.5	2.0	.7	--	--	17	1.8
MAY												
23...	447	6.4	80	100	2.7	3.5	1.8	.9	--	--	15	2.0
JUNE												
21...	624	6.2	70	51	4.0	3.7	2.0	1.1	16	0	16	2.0
JULY												
25...	141	6.0	320	100	3.9	4.6	2.1	1.2	20	0	16	1.6
AUG.												
08...	15	6.7	170	100	2.6	3.1	1.8	1.3	--	--	9.6	1.6
SEP.												
26...	6.1	3.9	220	100	2.8	3.7	2.0	1.8	--	--	9.2	2.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.											
14...	.0	.05	82	84	.11	60	44	.2	137	6.7	19.0
21...	--	--	--	--	--	50	30	--	--	6.9	--
FEB.											
01...	.0	.2	42	40	.06	24	13	.2	--	6.7	--
MAR.											
15...	.2	.02	39	35	.05	21	14	.2	--	--	--
APR.											
12...	.1	.02	42	37	.06	22	14	.2	--	--	--
MAY											
23...	.1	.02	43	37	.06	21	13	.2	--	--	--
JUNE											
21...	.1	.1	52	44	.07	25	12	.2	58	7.1	--
JULY											
25...	.1	.1	50	46	.07	29	13	.2	71	7.3	--
AUG.											
08...	.0	.02	35	33	.05	20	10	.2	--	--	--
SEP.											
26...	.1	.02	35	35	.05	22	7	.2	--	--	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
21...	--	--	133	--	19.0	--
FEB.						
01...	--	--	65	--	6.5	12.4
MAR.						
15...	8	0	65	6.6	13.0	11.0
APR.						
12...	8	0	66	7.6	15.0	10.4
MAY						
23...	10	0	64	6.8	19.0	4.1
JUNE						
21...	--	--	--	--	23.5	6.1
JULY						
25...	--	--	--	--	25.5	6.4
AUG.						
08...	12	0	55	6.0	25.0	6.6
SEP.						
26...	16	0	53	6.3	23.5	6.2

02456500 LOCUST FORK AT SAYRE, ALA.

LOCATION.--Lat 33°42'39", long 86°59'00", in NW¼ sec. 29, T. 15 S., R. 4 W., Jefferson County, at gaging station at right bank at downstream side of bridge on county road at Sayre, 1.5 miles downstream from Camp Creek, and at mile 33.9.

DRAINAGE AREA.--885 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
13...	136	5.4	420	260	16	9.5	5.9	3.3	54	0	42	3.2
21...	134	--	--	--	--	--	--	--	65	0	--	3.4
FEB.												
17...	1490	5.0	70	76	9.0	5.1	3.1	1.2	32	0	22	3.6
APR.												
06...	1950	4.3	30	84	10	5.3	3.2	1.1	--	--	22	3.2
MAY												
08...	319	4.4	180	230	17	8.6	5.4	1.5	--	--	34	3.4
JUNE												
23...	133	3.2	110	320	13	15	7.1	1.9	--	--	67	4.0
JULY												
18...	106	--	--	--	--	--	--	--	97	0	--	8.0
AUG.												
04...	247	3.5	200	300	17	12	6.0	2.0	--	--	43	3.0
31...	67	5.2	230	360	14	13	10	4.1	--	--	67	3.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.											
13...	.1	.09	118	113	.16	79	35	.3	195	7.1	19.0
21...	--	--	--	--	--	88	35	--	--	6.9	--
FEB.											
17...	.1	.02	67	67	.09	46	20	.2	--	6.8	--
APR.											
06...	.1	.2	66	67	.09	47	19	.2	--	--	--
MAY											
08...	.1	.8	106	105	.14	70	26	.3	--	--	--
JUNE											
23...	.1	.02	130	124	.18	94	39	.3	--	--	--
JULY											
18...	--	--	--	--	--	98	52	--	--	6.6	--
AUG.											
04...	.1	.00	--	123	.17	92	33	.3	--	--	--
31...	.1	.3	146	140	.20	94	48	.5	--	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
21...	--	--	--	200	--	20.0	--
NOV.							
29...	110	--	--	260	--	10.5	--
FEB.							
17...	--	--	--	116	--	9.0	11.3
22...	1360	--	--	115	--	10.5	--
APR.							
06...	--	34	0	116	6.9	14.0	11.2
11...	1180	--	--	118	--	15.5	--
MAY							
08...	--	54	0	180	7.2	20.0	7.6
23...	421	--	--	--	--	23.0	--
JUNE							
23...	--	68	0	218	7.4	25.0	7.8
JULY							
18...	--	--	--	220	--	25.0	--
AUG.							
04...	--	72	0	218	7.1	27.0	6.5
31...	--	56	0	250	7.2	26.5	7.2

02460300 VILLAGE CREEK NEAR ADAMSVILLE, ALA.

LOCATION.--Lat 33°36'20", long 87°00'25", in E½ sec. 26, T. 16 S., R. 5 W., Jefferson County, at gaging station on right bank at downstream side of highway bridge, 0.2 mile upstream from Canoe Creek, 3.5 miles west of Adamsville, and 8 miles upstream from mouth.

DRAINAGE AREA.--84.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966 and 1967.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB.											
17...	500	11	30	19	41	14	17	6.6	92	0	85
APR.											
07...	120	6.0	140	270	37	13	20	7.6	--	--	81
MAY											
08...	174	12	270	700	39	14	26	12	--	--	76
JUNE											
26...	30	15	100	270	38	12	30	12	--	--	70
AUG.											
03...	15	13	250	260	40	12	32	16	--	--	66
31...	--	12	120	130	37	11	30	15	--	--	61

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB.										
17...	12	.7	6.6	260	261	.35	160	85	.6	6.6
APR.										
07...	15	1.0	.5	240	244	.33	150	51	.7	--
MAY										
08...	20	1.0	9.3	--	321	.44	160	31	.9	--
JUNE										
26...	23	4.1	7.7	--	319	.43	140	6	1.1	--
AUG.										
03...	20	2.2	2.1	--	298	.41	150	1	1.1	--
31...	20	2.3	2.0	261	260	.35	140	36	1.1	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB.						
17...	--	--	430	--	10.0	9.7
APR.						
07...	121	3	452	8.5	15.0	14.0
MAY						
08...	158	0	515	7.5	21.5	4.3
JUNE						
26...	164	0	502	7.7	24.5	6.1
AUG.						
03...	182	0	555	7.2	27.0	3.6
31...	127	0	445	7.4	25.0	4.5

02462000 VALLEY CREEK NEAR OAK GROVE, ALA.

LOCATION.--Lat 33°26'50", long 87°07'20", in NW¼ sec. 33, T. 18 S., R. 6 W., Jefferson County, at gaging station near center of span on downstream side of highway bridge, 1,000 ft downstream from Raccoon Branch, 1.5 miles west of Oak Grove, and 10.3 miles west of Bessemer.

DRAINAGE AREA.--165 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1967.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 17...	630	9.7	30	95	51	16	27	8.2	17	0	220
APR. 07...	244	5.8	200	880	47	17	42	9.6	--	--	230
MAY 09...	142	9.3	710	850	52	17	52	9.5	--	--	200
JUNE 23...	103	9.3	240	800	64	23	120	35	--	--	440
AUG. 03...	81	13	210	1000	71	26	51	13	--	--	290
31...	21	9.6	240	80	79	23	65	16	--	--	340

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB. 17...	11	.5	.6	364	354	.50	200	190	.8	6.6
APR. 07...	10	.7	.6	413	415	.56	190	107	1.3	--
MAY 09...	19	1.1	.8	545	510	.74	200	89	1.6	--
JUNE 23...	21	2.0	1.2	753	--	1.02	205	--	3.3	--
AUG. 03...	16	.8	1.0	--	550	.75	200	100	1.3	--
31...	18	1.1	1.4	--	626	.85	290	100	1.7	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB. 17...	--	--	590	--	13.0	7.5
APR. 07...	102	0	710	7.2	16.0	7.5
MAY 09...	136	0	895	7.5	24.0	4.4
JUNE 23...	--	--	1200	7.6	22.0	4.7
AUG. 03...	124	0	960	7.4	26.5	5.3
31...	139	0	980	7.6	25.0	5.2

02464000 NORTH RIVER NEAR SAMANTHA, ALA.

LOCATION.--Lat 33°28'45", long 87°35'50", in SW¼ sec. 16, T. 18 S., R. 10 W., Tuscaloosa County, at gaging station about 200 ft downstream from bridge on county road, 1.2 miles upstream from Cripple Creek, 6 miles north of Samantha, and at mile 36.9.

DRAINAGE AREA.--219 sq mi.

PERIOD OF RECORD.--Chemical analyses: July to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
05...	31	--	--	--	--	--	--	--	14	0	--	2.0
JULY												
21...	9.3	--	--	--	--	--	--	--	14	0	--	2.6
28...	114	6.6	220	120	2.7	2.2	2.1	1.4	--	--	5.6	2.6
AUG.												
10...	14	5.9	430	280	4.2	3.7	2.5	1.0	--	--	10	6.2
SEP.												
29...	34	4.9	640	250	1.9	2.1	2.1	3.0	--	--	4.2	2.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.											
05...	--	--	--	--	--	22	11	--	--	6.6	22.0
JULY											
21...	--	--	--	--	--	16	5	--	66	6.4	--
28...	.1	.3	35	29	.05	16	5	.2	--	--	--
AUG.											
10...	.0	.00	41	46	.06	26	20	.2	--	--	--
SEP.											
29...	.1	.02	--	28	.04	13	2	.2	--	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
05...	--	--	--	51	--	22.0	--
NOV.							
19...	18	--	--	44	--	13.0	--
DEC.							
30...	180	--	--	43	--	13.5	--
FEB.							
17...	269	--	--	40	--	10.0	--
MAR.							
27...	170	--	--	39	--	12.5	--
MAY							
03...	141	--	--	41	--	19.0	--
JUNE							
19...	15	--	--	--	--	25.0	--
JULY							
26...	9.0	--	--	60	--	26.0	--
28...	--	14	0	41	6.0	26.5	6.0
AUG.							
10...	--	8	0	68	5.7	27.0	7.1
SEP.							
15...	2.3	--	--	125	--	17.0	--
29...	--	12	0	42	6.1	25.5	5.9

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02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.

LOCATION.--Lat 33°12'30", long 87°34'22", in NW¼ sec. 13, T. 21 S., R. 10 W., Tuscaloosa County, at gaging station near right bank on downstream side of pier of bridge on U.S. Highway 82, in Tuscaloosa, 0.1 mile downstream from small tributary, 0.2 mile upstream from Gulf, Mobile and Ohio Railroad bridge, 0.8 mile upstream from Oliver Lock and Dam, 4.8 miles downstream from North River, and at mile 127.0.

DRAINAGE AREA.--4,828 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1972.
Water temperatures: November 1960 to September 1972.

EXTREMES.--1971-72:
Dissolved solids: Maximum, 142 mg/l Nov. 1-30; minimum, 71 mg/l Jan. 12-22.
Hardness: Maximum, 72 mg/l Aug. 5; minimum, 34 mg/l Jan. 8-11.
Specific conductance: Maximum daily, 230 micromhos July 18; minimum daily, 96 micromhos Jan. 11.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.											
01-31	1730	6.0	20	12	4.2	14	1.4	32	0	56	6.6
NOV.											
01-30	1500	3.6	20	13	4.6	17	1.8	38	0	68	6.0
DEC.											
01-05	4300	6.0	10	12	4.2	14	1.0	20	0	56	6.6
06...	10200	--	--	--	--	--	--	18	0	--	3.6
07-17	17400	6.0	16	14	4.7	16	4.1	20	0	48	6.8
18-26	15900	6.8	18	11	5.5	7.0	2.0	22	0	60	3.6
27...	7360	--	--	--	--	--	--	9	0	--	3.2
28-31	6500	6.8	30	6.3	6.3	4.5	2.7	19	0	30	3.6
JAN.											
01...	6930	--	--	--	--	--	--	18	0	--	6.8
02-07	42900	7.2	20	6.7	5.1	7.3	2.6	22	0	22	6.0
08-11	63900	6.8	17	7.2	5.0	6.0	2.0	14	0	26	2.8
12-22	17900	7.2	18	6.2	6.5	5.0	2.1	16	0	32	3.0
23-31	9860	6.8	19	6.7	6.0	5.0	2.0	18	0	36	3.2
FEB.											
01-10	12100	6.3	2	6.6	5.6	6.0	1.5	22	0	36	2.8
11-29	8060	2.5	4	11	4.2	6.3	1.4	24	0	44	3.2
MAR.											
01-09	15100	6.7	2	12	5.0	6.6	1.5	23	0	36	3.6
10-18	12400	5.6	6	12	6.2	11	1.8	25	0	47	5.6
19-31	7860	5.6	--	6.6	5.1	7.0	1.5	23	0	32	3.6
APR.											
01-02	6320	15	--	--	--	--	--	8	1/ 18	--	2.8
03-30	5700	3.8	2	6.0	5.1	6.2	1.4	26	0	37	3.6
MAY											
01-31	3810	2.6	40	6.0	5.6	11	1.2	26	0	61	3.6
JUNE											
01-06	3810	2.6	60	6.0	5.6	11	1.0	26	0	61	3.0
07-30	1910	3.3	3	12	6.6	15	2.2	28	0	56	6.6
JULY											
01-17	2000	4.1	20	11	6.0	14	2.6	28	0	50	6.6
18...	5120	--	--	--	--	--	--	36	0	--	3.6
19-31	3160	5.7	16	11	6.6	16	2.8	28	0	55	6.0
AUG.											
01-04	1760	5.2	10	16	6.5	16	3.1	22	2	58	6.6
05...	1600	--	--	--	--	--	--	30	0	--	5.2
06-25	1960	5.8	16	13	6.6	17	3.3	30	0	60	6.0
26...	1900	--	--	--	--	--	--	16	0	--	5.2
27-31	1610	5.6	6	13	6.0	14	3.1	22	0	63	6.6
SEPT.											
01-05	1740	6.6	10	11	6.0	10	1.3	28	0	66	6.0
06-30	2630	5.7	0	11	6.0	16	3.5	26	0	62	6.2
WTD. AVG.	--	6.6	15	10	5.5	8.6	2.3	23	0	41	3.7
TIME WTD. AVG.	6630	6.0	18	11	6.0	12	2.6	26	0	48	6.1
TONS PER DAY	--	98	0	182	97	168	41	409	1	777	66

1/ Contains 2 mg/l hydroxide (OH)

02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.--Continued

EXTREMES.--1971-72:--Continued
Water temperature: Maximum, 32.0°C Aug. 12; minimum, 8.0°C Feb. 20.

Period of record:
Dissolved solids (1966-72): Maximum, 162 mg/l Dec. 1-31, 1970; minimum, 49 mg/l Jan. 13-17, 1968.
Hardness (1966-72): Maximum, 68 mg/l July 14-15, 1969; minimum, 34 mg/l Jan. 13-17, 1968.
Specific conductance (1966-72): Maximum daily, 288 micromhos Dec. 10, 1970; minimum daily, 78 micromhos Jan. 14, 1968.
Water temperatures: Maximum, 35.0°C Aug. 6, 1963; minimum (1960-70, 1971-72), 3.0°C Jan. 30, 31, Dec. 25, 1963, Jan. 31, Feb. 1, 1966

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT.										
01-31	.2	.60	136	122	.18	56	30	.9	198	7.2
NOV.										
01-30	.2	.02	142	127	.19	59	24	1.0	205	7.1
DEC.										
01-05	.1	1.3	130	122	.18	56	32	.8	195	7.0
06...	--	--	--	--	--	50	9	--	168	7.4
07-17	.1	1.8	126	132	.17	43	40	.8	213	6.7
18-24	.1	.87	88	87	.12	50	32	.6	150	6.6
25...	--	--	--	--	--	52	40	--	143	6.6
26-31	.1	1.0	79	86	.11	45	30	.6	130	7.2
JAN.										
01...	--	--	--	--	--	50	17	--	168	7.3
02-07	.1	.60	84	84	.11	49	27	.5	130	6.7
08-11	.1	.79	--	66	.09	36	21	.3	101	6.8
12-22	.1	.79	75	76	.10	42	20	.3	116	6.8
23-31	.2	.65	82	75	.11	42	27	.4	124	6.6
FEB.										
01-10	.2	.30	74	74	.10	44	28	.4	131	7.2
11-29	.2	.10	94	82	.13	53	32	.4	156	7.1
MAR.										
01-09	.2	.90	--	86	.12	48	29	.5	163	6.9
10-14	.2	.77	--	106	.14	56	36	.4	268	6.8
15-31	.2	.49	--	78	.11	45	26	.5	138	6.7
APR.										
01-02	.1	.20	--	--	--	--	--	--	142	6.8
03-30	--	.90	82	85	.11	44	25	.4	150	6.9
MAY										
01-31	.2	.20	92	80	.13	47	27	.7	155	6.9
JUNE										
01-06	.2	.20	92	80	.13	47	27	.7	155	6.9
07-30	.3	1.3	116	116	.16	57	37	.9	187	6.6
JULY										
01-17	.2	1.0	115	115	.16	56	33	.8	180	6.8
18...	--	--	--	--	--	62	41	--	196	6.9
19-31	.2	1.2	116	116	.16	54	31	.9	183	7.0
AUG.										
01-04	.3	.90	--	120	.16	62	46	.6	219	6.7
05...	--	--	--	--	--	72	43	--	262	6.8
06-25	.2	1.1	126	127	.17	60	36	1.0	206	6.6
26...	--	--	--	--	--	69	40	--	221	6.7
27-31	.2	.06	--	127	.17	61	43	.9	205	6.3
SEP.										
01-05	.3	.80	--	137	.19	41	38	1.1	211	7.1
06-30	.3	.79	126	125	.17	56	37	.3	201	6.7
WTD. AVG.	.2	.68	97	93	.13	49	30	.6	155	6.9
TIME WTD. AVG.	.2	.65	109	105	.15	52	31	.7	176	6.9
TONS PER DAY	2.9	17	1520	1430	--	--	--	--	--	--

02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE DAILY MEASUREMENT AT 0600)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	221	218	150	128	134	119	153	---	212	200	184
2	201	216	210	---	132	141	---	158	---	224	182	185
3	---	208	205	140	136	131	---	149	---	211	190	206
4	---	214	190	144	141	130	---	148	---	207	203	204
5	212	219	176	149	144	133	132	150	---	212	242	200
6	198	201	167	151	136	136	138	150	---	219	186	177
7	200	210	199	132	137	150	135	143	187	208	189	185
8	201	221	208	113	128	139	138	145	181	214	190	184
9	202	202	219	104	128	147	140	149	179	214	196	185
10	205	196	214	102	143	179	129	157	178	210	189	187
11	202	220	222	94	161	177	146	151	193	216	183	177
12	202	214	225	117	180	171	148	150	185	226	191	179
13	205	195	233	119	180	158	149	162	189	225	184	185
14	205	200	240	125	174	153	153	156	193	215	192	188
15	210	210	238	120	168	139	144	152	189	214	181	174
16	208	239	220	115	157	138	150	156	189	218	188	175
17	209	225	209	117	163	135	150	152	194	236	172	173
18	205	225	175	115	161	128	129	151	190	258	177	174
19	208	221	156	117	163	127	142	148	193	214	180	182
20	210	215	149	120	165	121	143	149	200	216	192	175
21	215	225	149	118	167	123	151	151	212	219	187	176
22	215	225	152	125	166	124	151	156	204	230	192	176
23	214	225	153	---	163	130	148	149	216	215	185	177
24	214	209	148	125	157	122	139	148	203	224	193	179
25	216	211	225	125	151	126	144	157	209	220	176	180
26	220	208	140	137	152	121	143	156	208	222	221	179
27	214	227	131	133	150	118	143	155	208	196	182	179
28	214	225	146	136	158	116	139	160	215	214	183	181
29	211	222	155	135	150	116	143	164	200	222	183	187
30	211	212	163	136	---	118	140	160	208	221	184	182
31	214	---	150	130	---	121	---	170	---	206	185	---
MONTH	208	215	186	126	153	136	142	153	196	218	190	182

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.5	26.0	22.5	22.5	15.0	15.0	14.0	13.5	10.5	10.0	11.0	11.0
2	26.5	26.0	22.5	22.5	15.0	14.5	13.5	13.5	10.0	10.0	11.0	11.0
3	27.0	26.0	22.5	22.0	14.5	14.0	13.5	13.0	10.0	10.0	11.0	10.5
4	26.5	26.0	22.0	21.5	14.0	13.0	13.0	12.5	10.0	9.5	11.0	10.5
5	26.0	26.0	21.5	21.0	14.0	13.0	12.5	12.5	9.5	9.0	11.0	11.0
6	26.0	25.5	21.0	20.5	13.5	13.5	12.5	12.0	9.5	9.5	11.0	11.0
7	26.0	25.5	20.5	20.0	13.5	13.0	12.0	11.5	9.5	9.5	11.0	11.0
8	26.0	25.5	20.0	19.0	13.5	13.0	11.5	11.5	9.5	9.5	11.0	11.0
9	25.5	25.0	19.0	18.0	13.0	13.0	11.5	11.5	10.0	9.5	11.5	11.0
10	25.0	24.5	18.5	18.0	13.0	13.0	11.5	11.0	10.0	10.0	12.0	11.5
11	25.0	24.0	19.5	18.5	13.0	12.5	11.5	11.5	10.0	10.0	12.0	12.0
12	25.0	23.5	19.5	19.0	13.0	12.5	11.5	11.0	10.0	9.5	12.5	12.0
13	24.0	23.5	19.5	18.5	13.0	12.5	12.0	11.0	9.5	9.0	13.0	12.0
14	24.5	23.5	19.0	19.0	13.0	12.5	12.0	12.0	9.5	9.0	13.0	12.5
15	25.0	24.0	19.0	19.0	14.0	13.0	12.0	12.0	9.0	9.0	13.5	13.0
16	25.0	24.0	19.0	18.5	13.5	13.0	12.0	11.0	9.0	9.0	13.5	13.0
17	24.5	24.0	19.0	18.5	13.0	13.0	11.0	11.0	9.0	9.0	13.5	13.0
18	24.5	24.0	19.5	19.0	13.0	13.0	11.0	10.5	9.0	9.0	13.5	13.5
19	24.5	24.0	19.0	19.0	13.0	12.5	11.0	11.0	9.0	8.5	14.0	13.5
20	24.0	24.0	19.0	18.5	13.0	12.5	11.0	11.0	8.5	8.0	14.5	14.0
21	24.0	23.5	18.5	18.0	13.0	13.0	11.0	11.0	9.0	8.5	14.5	14.5
22	23.5	23.0	18.0	17.5	13.0	13.0	11.0	11.0	9.0	9.0	14.5	14.0
23	23.5	23.0	17.5	16.5	13.0	13.0	11.0	11.0	9.0	9.0	14.0	14.0
24	23.5	23.0	14.5	16.0	13.0	13.0	11.5	11.0	10.0	9.0	14.0	14.0
25	23.0	23.0	16.0	16.0	13.5	13.0	11.5	11.5	10.0	10.0	14.0	14.0
26	23.0	22.5	16.0	16.0	14.0	13.5	11.5	11.0	10.5	10.0	15.0	14.0
27	22.5	22.0	16.0	16.0	13.5	13.5	11.5	11.0	11.5	10.5	14.0	14.0
28	23.0	22.0	16.0	15.5	13.5	13.5	11.5	11.5	11.0	10.5	14.5	14.0
29	22.5	22.0	16.0	15.5	13.5	13.5	11.5	11.0	11.5	11.0	15.0	14.5
30	22.5	22.5	15.5	15.0	14.0	13.5	11.0	11.0	---	---	15.0	14.5
31	22.5	22.5	---	---	14.0	13.5	11.0	10.5	---	---	15.0	15.0
MONTH	27.0	22.0	22.5	15.0	15.0	12.5	14.0	10.5	11.5	8.0	15.0	10.5

02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.5	21.0	20.0	24.5	23.5	27.0	26.5	28.5	28.0	30.0	29.0
2	15.0	15.0	20.5	20.0	24.5	23.5	27.0	26.0	29.0	28.0	30.0	29.0
3	15.0	15.0	21.5	20.0	25.5	24.0	28.0	26.5	29.5	28.5	30.5	29.0
4	15.5	15.0	22.0	20.5	26.0	24.5	27.5	27.0	29.0	29.0	30.5	29.5
5	15.5	15.0	22.0	20.5	25.5	24.5	27.0	27.0	30.5	29.0	29.5	29.0
6	15.5	15.5	22.0	21.0	26.0	24.5	27.0	26.0	31.0	29.0	29.5	28.5
7	16.0	15.5	21.0	20.5	25.0	24.5	27.0	26.0	30.0	29.0	29.5	28.5
8	16.0	16.0	21.5	20.5	26.5	24.5	28.0	26.5	30.0	29.0	29.5	28.5
9	16.0	16.0	22.0	21.0	26.0	25.5	28.0	27.0	31.0	29.5	30.5	29.0
10	16.0	16.0	21.5	21.0	27.5	26.0	28.0	27.0	30.0	29.0	29.5	29.0
11	16.0	16.0	21.0	21.0	26.5	26.0	29.0	27.0	30.0	28.5	29.5	29.0
12	16.5	16.0	21.0	20.5	26.0	26.0	28.0	27.0	32.0	28.5	30.5	29.0
13	18.0	16.5	20.5	20.5	27.0	26.0	28.0	27.0	29.5	28.5	30.0	28.5
14	19.0	17.0	21.0	20.5	26.0	25.5	28.0	27.0	30.0	28.5	30.0	29.0
15	18.5	18.0	21.0	20.5	28.0	25.5	28.0	27.0	29.5	28.5	30.0	28.5
16	19.0	17.5	21.5	21.0	26.5	26.0	29.0	27.5	30.0	29.0	29.0	29.0
17	19.0	17.5	22.0	21.5	26.5	26.0	28.5	27.5	30.0	29.0	29.5	29.0
18	21.0	18.0	23.0	22.0	26.5	25.5	28.0	27.5	30.0	29.5	29.0	28.5
19	22.0	19.0	22.5	22.0	26.5	25.0	28.5	28.0	30.0	29.5	28.5	28.5
20	20.0	19.0	23.0	22.0	27.5	26.0	28.0	28.0	31.0	29.5	28.5	28.0
21	19.0	18.5	24.0	23.0	28.0	26.5	28.5	28.0	30.5	29.0	29.0	28.0
22	19.0	18.5	24.5	23.0	27.5	26.5	29.0	28.0	30.5	30.0	29.0	28.5
23	20.0	19.0	25.0	23.5	27.5	26.5	31.0	28.5	31.5	30.0	29.0	28.5
24	20.0	19.5	25.0	23.5	27.5	26.0	30.0	28.5	31.5	30.0	29.5	28.5
25	20.0	20.0	24.0	23.5	26.5	26.0	29.0	28.5	30.5	29.5	29.0	28.5
26	20.0	19.5	25.0	24.0	27.0	26.0	29.0	28.5	30.5	29.0	29.0	28.5
27	20.0	20.0	25.5	24.0	27.0	26.0	28.5	28.0	31.0	29.5	29.0	28.0
28	20.0	19.5	25.0	24.0	27.0	26.5	29.0	28.0	30.0	29.5	28.5	28.0
29	20.0	20.0	25.5	24.0	27.0	26.5	28.5	27.0	30.0	29.5	28.5	28.0
30	21.5	20.0	25.5	24.5	26.5	26.5	28.5	28.0	29.5	29.0	28.0	28.0
31	---	---	25.0	24.0	---	---	29.0	27.5	29.5	29.0	---	---
MONTH	22.0	14.5	25.5	20.0	28.0	23.5	31.0	26.0	32.0	28.0	30.5	28.0

02467000 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, NEAR COATOPA, ALA. (UPPER POOL)

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, at gaging station on left bank, 100 ft upstream from lock and dam, 0.5 mile downstream from Foscue Creek, 2.5 miles west of Demopolis, 3.5 miles upstream from Bell Creek, 13 miles east of Coatopa, and at mile 171.2.

DRAINAGE AREA.--15,400 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
07...	8910	39	0	161	7.0	27.0	5.0
NOV.							
09...	3380	--	--	152	--	19.0	8.0
DEC.							
10...	78100	34	0	155	6.9	13.0	8.3
JAN.							
18...	110000	30	0	89	6.6	9.0	9.2
FEB.							
08...	51100	50	0	129	7.1	8.0	11.2
APR.							
06...	25000	35	0	123	7.0	16.0	9.2
MAY							
09...	8180	--	--	120	--	23.0	7.6
16...	29200	38	0	116	7.4	22.0	7.3
JUNE							
09...	3920	41	0	149	7.5	27.5	6.0
JULY							
21...	5750	41	0	178	7.3	30.0	6.8
AUG.							
24...	1660	46	0	181	7.6	32.0	6.8
SEP.							
13...	1550	42	0	190	7.0	30.0	5.9

02467001 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, ALA. (LOWER POOL)

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, 50 yards downstream from gaging station on left bank 100 ft upstream from lock and dam, 0.5 mile downstream from Foscue Creek, 2.5 miles west of Demopolis, 3.5 miles upstream from Bell Creek, 13 miles east of Coatopa, and at mile 171.2.

DRAINAGE AREA.--15,400 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
07...	8900	4.2	130	0	12	4.2	11	2.6	--	--	31
NOV.											
09...	3380	7.0	50	20	17	3.2	9.5	2.5	48	0	23
12...	5550	--	--	--	--	--	--	--	--	--	--
DEC.											
10...	76100	5.8	220	470	14	3.5	7.4	3.8	--	--	33
JAN.											
18...	110000	6.2	120	60	11	1.5	2.5	1.5	--	--	10
FEB.											
08...	51100	4.5	160	60	17	2.2	3.9	1.7	--	--	16
APR.											
06...	25000	6.3	250	70	12	2.9	5.3	1.4	--	--	15
MAY											
09...	8180	6.3	450	18	12	2.4	5.2	1.4	41	0	15
16...	29200	4.8	30	10	12	2.8	6.0	1.6	--	--	17
JUNE											
09...	3920	3.8	30	10	14	3.4	8.4	1.6	--	--	23
JULY											
21...	5750	6.0	10	11	15	4.2	13	2.0	--	--	32
AUG.											
24...	1660	5.7	20	9	16	3.6	12	2.4	--	--	30
SEP.											
13...	1550	8.6	90	11	14	4.6	15	2.9	--	--	36

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.											
07...	5.5	.2	--	.003	.4	.007	.016	95	91	.13	48
NOV.											
09...	9.0	.1	.20	.006	.2	.13	.17	106	96	.14	56
12...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
10...	5.0	.1	.79	.009	.7	.029	.31	82	93	.11	50
JAN.											
18...	2.7	.1	.40	.006	.1	.020	.12	59	51	.08	34
FEB.											
08...	3.9	.1	.52	.003	.3	.020	.14	75	75	.10	52
APR.											
06...	4.8	.1	.28	.012	.6	.026	.046	72	70	.10	42
MAY											
09...	3.6	.1	.29	.040	.3	.026	.098	--	67	.09	40
16...	4.4	.2	.39	.015	.7	.029	.10	--	71	.10	41
JUNE											
09...	6.5	.3	.27	.021	.5	.003	.026	83	83	.11	49
JULY											
21...	8.2	.4	.37	.006	.7	.050	.095	114	106	.16	55
AUG.											
24...	7.6	.1	.47	.010	.3	.026	.042	--	103	.14	55
SEP.											
13...	10	.2	.51	.020	.5	.003	.036	112	114	.15	54

02467001 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, ALA. (LOWER POOL)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 07...	17	.7	--	5	50	--	2.1	14	1900
NOV. 09...	17	.6	6.9	10	30	16	1.6	13	170
12...	--	--	--	--	--	--	--	--	--
DEC. 10...	22	.5	--	50	510	28	2.6	870	12000
JAN. 18...	10	.2	--	--	--	40	1.6	97	2400
FEB. 08...	12	.2	--	70	160	42	3.1	3000	15000
APR. 06...	11	.4	--	35	10	26	2.4	--	330
MAY 09...	7	.4	7.5	30	30	15	1.3	--	240
16...	12	.4	--	45	20	17	1.5	--	9000
JUNE 09...	16	.5	--	15	10	16	1.3	--	--
JULY 21...	19	.8	--	20	25	11	1.0	38	920
AUG. 24...	16	.7	--	5	15	13	--	44	830
SEP. 13...	21	.9	--	20	15	12	1.2	11	160

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 12...	3	<1	<10	--	<1	<1	<.5	<10
MAY 16...	<1	<1	--	<10	<1	<1	<.5	10

DATE	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
MAY 16...	3	<1	5	9	10	<.05	29
JULY 21...	1	<1	1	1	4	<.05	6

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 07...	38	0	162	7.1	27.0	8.9
NOV. 09...	--	--	152	--	19.0	10.4
DEC. 10...	34	0	154	6.9	13.0	9.9
JAN. 18...	30	0	89	6.7	9.0	9.7
FEB. 08...	49	0	128	7.3	8.0	13.3
APR. 06...	35	0	122	6.7	16.0	11.2
MAY 09...	--	--	115	--	22.5	9.4
16...	38	0	116	7.5	22.0	9.9
JUNE 09...	42	0	146	7.8	27.5	8.6
JULY 21...	42	0	175	7.3	29.5	8.3
AUG. 24...	48	0	182	7.7	31.5	7.8
SEP. 13...	42	0	190	7.4	30.0	8.2

02447500 SUCARNOOCHEE RIVER AT LIVINGSTON, ALA.

LOCATION.--Lat 32°34'25", long 88°11'36", in SW¼ sec. 33, T. 19 N., R. 2 W., Sumter County, at gaging station on right bank 10 ft downstream from bridge on U.S. Highway 11, 500 ft upstream from Southern Railway bridge, 0.8 mile southwest of Livingston, and 9 miles upstream from Alamuchee Creek.

DRAINAGE AREA.--606 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1968.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 17...	196	9.8	470	9	12	1.2	3.1	7.1	4.0
AUG. 15...	163	9.1	140	27	11	1.3	3.5	2.1	7.4
SEP. 21...	172	11	170	42	6.0	1.2	3.5	1.7	4.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
JULY 17...	3.4	.1	.02	60	62	.08	35	0	.2
AUG. 15...	3.2	.1	.02	56	54	.08	33	6	.3
SEP. 21...	2.8	.0	.00	45	43	.06	20	0	.3

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 28...	193	--	--	60	--	18.0	--
NOV. 30...	212	--	--	60	--	9.0	--
JAN. 17...	1110	--	--	100	--	7.0	--
MAR. 06...	1900	--	--	80	--	11.0	--
JULY 17...	--	43	0	86	7.9	25.0	7.3
AUG. 10...	179	--	--	--	--	26.0	--
15...	--	33	0	84	7.3	26.0	7.3
SEP. 21...	--	27	0	57	7.0	27.0	7.2

02468500 CHICKASAW BOGUE NEAR LINDEN, ALA.

LOCATION.--Lat 32°19'45", long 87°47'27", in SW¼ sec. 28, T. 16 N., R. 3 E., Marengo County, at gaging station near left bank on downstream side of bridge on U.S. Highway 43, 1.5 miles north of Linden, 2 miles downstream from Atkin Creek, and 11 miles upstream from mouth.

DRAINAGE AREA.--258 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1968, and 1969.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 17...	46	13	260	36	39	1.6	5.7	3.0	18
AUG. 15...	3.3	5.7	20	160	38	3.1	8.9	2.9	13
SEP. 21...	.80	8.9	10	190	35	2.7	5.2	2.3	4.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
JULY 17...	8.6	.4	.02	149	145	.20	104	11	.2
AUG. 15...	5.0	.2	.02	142	142	.19	110	3	.4
SEP. 21...	5.6	.2	.02	114	123	.16	99	2	.2

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 27...	3.6	--	--	265	--	18.5	--
NOV. 30...	72	--	--	180	--	9.0	--
JAN. 25...	283	--	--	250	--	16.0	--
JUNE 13...	14	--	--	280	--	29.0	--
JULY 17...	--	114	0	242	7.7	26.5	6.8
AUG. 09...	3.0	--	--	--	--	29.0	--
15...	--	128	0	247	7.5	27.5	6.9
SEP. 20...	.82	--	--	--	--	22.0	--
21...	--	119	0	204	7.5	27.0	6.2

02469634 PUSS CUSS CREEK NEAR GILBERTOWN, ALA.

LOCATION.--Lat 31°53'44", long 88°23'19", in NW¼SE¼ sec. 28, T. 11 N., R. 4 W., Choctaw County, at bridge on County Road 14, 0.9 mile upstream from mouth, 1.6 miles downstream from James Creek, and 4 miles west of Gilbertown.

DRAINAGE AREA.--52.7 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
03...	8.0	124	0	23	110	9	285	7.3	19.5
DEC.									
01...	9.0	118	0	52	140	44	375	7.4	10.0
29...	12	122	0	19	120	20	272	7.4	17.0
FEB.									
02...	15	100	0	24	120	38	248	7.3	10.0
MAR.									
01...	15	102	0	24	120	37	260	7.5	19.0
31...	10	112	0	14	110	18	232	7.7	18.0
APR.									
28...	15	117	0	16	120	24	253	8.2	20.0
MAY									
26...	12	113	0	16	100	8	235	7.9	24.0
JUNE									
30...	20	98	0	24	110	30	404	7.0	33.0

02469710 LITTLE MILL CREEK AT GILBERTOWN, ALA.

LOCATION.--Lat 31°52'20", long 88°19'16", in NW¼ sec. 6, T. 10 N., R. 3 W., Choctaw County, at left bank, 20 ft downstream from Alabama Highway 17 crossing, at Gilbertown, and 2.8 miles upstream from mouth.

DRAINAGE AREA.--3.50 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
03...	1.0	16	0	220	80	67	746	6.3	21.0
DEC.									
01...	1.5	24	0	150	80	61	547	6.4	11.0
29...	2.0	20	0	150	80	64	550	6.4	17.0
FEB.									
02...	2.0	18	0	110	76	61	339	6.6	11.0
MAR.									
01...	2.5	18	0	110	60	45	391	6.5	18.0
30...	1.5	22	0	120	60	42	432	6.8	17.0
APR.									
28...	1.5	20	0	140	60	44	471	6.4	16.0
MAY									
26...	1.0	25	0	150	58	38	560	7.0	21.0
JUNE									
30...	1.5	28	0	260	72	49	881	7.0	23.0

02469711 LITTLE MILL CREEK AT MOUTH NEAR GILBERTOWN, ALA.

LOCATION.--Lat 31°51'40", long 88°17'20", in SE¼SE¼ sec. 4, T. 10 N., R. 3 W., Choctaw County, at left bank, 2.3 miles east of Gilbertown, and at the mouth.

DRAINAGE AREA.--5.21 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
03...	2.0	56	0	230	120	74	859	6.7	19.5
DEC.									
01...	2.0	24	0	110	80	61	435	6.6	10.0
29...	2.5	28	0	110	70	47	430	6.6	16.5
FEB.									
02...	3.0	24	0	84	80	61	330	6.9	10.0
MAR.									
01...	3.0	26	0	84	60	39	322	6.8	18.0
31...	2.0	31	0	96	68	43	369	7.0	18.0
APR.									
28...	2.0	34	0	120	74	46	473	6.8	19.0
MAY									
26...	1.0	28	0	130	86	63	540	7.1	22.0
JUNE									
30...	4.0	34	0	140	80	52	519	7.2	26.0

02469727 SURVEYORS CREEK NEAR BARRYTOWN, ALA.

LOCATION.--Lat 31°51'50", long 88°13'20", in SE¼SE¼ sec. 12, T. 10 N., R. 3 W., Choctaw County, at left bank, 1.2 miles west of Barrytown, and 0.1 mile upstream from mouth.

DRAINAGE AREA.--24.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
03...	8.0	46	0	27	32	0	168	6.6	20.5
DEC.									
01...	8.0	16	0	7.2	18	5	66	6.5	10.0
29...	7.0	14	0	12	30	19	91	6.2	16.0
FEB.									
02...	12	14	0	5.2	18	7	52	6.9	10.0
MAR.									
01...	8.0	32	0	6.5	40	14	87	6.9	17.0
31...	12	20	0	6.4	22	6	91	6.9	19.0
JUNE									
30...	15	42	0	13	29	0	116	7.6	23.0

02469730 OKATUPPA CREEK NEAR BARRYTOWN, ALA.

LOCATION.--Lat 31°30'30", long 88°13'18", in SE¼NE¼ sec. 12, T. 10 N., R. 3 W., Choctaw County, at gaging station near left bank on downstream side of bridge on Choctaw County Highway 16, 1 mile east of Barrytown, and 2 miles southeast of Womack Hill.

DRAINAGE AREA.--200 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1967, October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.									
14...	35	70	0	20	64	10	231	7.5	--
NOV.									
03...	30	62	0	36	64	13	242	6.0	21.0
DEC.									
01...	40	30	0	10	44	13	126	6.0	9.0
29...	45	44	0	15	50	14	130	6.0	16.0
FEB.									
02...	80	20	0	8.4	36	13	92	7.0	10.0
MAR.									
01...	50	42	0	16	46	12	140	7.1	10.0
31...	35	35	0	9.4	40	12	130	6.0	14.0
APR.									
28...	25	51	0	16	54	12	161	6.9	19.0
MAY									
26...	30	30	0	7.2	34	10	95	6.0	25.0
JUNE									
30...	25	53	0	21	52	9	205	7.2	22.0

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, NEAR COFFEEVILLE, ALA. (UPPER POOL)

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, at gaging station near right bank at Coffeeville Lock and Dam, 4 miles downstream from Turkey Creek, 2 miles west of Coffeeville, and at mile 36.7.

DRAINAGE AREA.--18,500 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
06...	7060	46	0	170	7.2	27.5	6.3
NOV.							
09...	3600	--	--	180	--	20.0	6.8
APR.							
06...	29400	38	0	136	6.8	17.0	9.2
MAY							
09...	8870	--	--	130	--	23.0	6.7
16...	30100	40	0	122	6.7	23.0	7.4
JUNE							
08...	6370	44	0	158	7.7	29.0	7.8
JULY							
21...	3490	53	0	191	7.2	29.0	4.9
AUG.							
24...	2660	49	0	200	7.0	31.5	5.0
SEP.							
12...	2670	35	0	208	6.3	29.5	4.6

02469762 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, ALA. (LOWER POOL)

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, near right bank about 0.5 mile downstream from Coffeeville Lock and Dam, 4 miles downstream from Turkey Creek, 2 miles west of Coffeeville, and at mile 96.7.

DRAINAGE AREA.--18,500 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967, 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
06...	7960	4.1	100	20	16	3.7	11	2.8	--	--	29
NOV.											
09...	3400	7.1	190	60	16	3.2	16	2.8	50	0	25
12...	7000	--	--	--	--	--	--	--	--	--	--
DEC.											
09...	65600	5.5	190	110	19	2.3	6.3	2.7	--	--	15
JAN.											
18...	138000	5.8	190	50	9.5	1.6	2.7	1.5	--	--	11
FEB.											
08...	56400	5.5	220	50	13	2.3	4.9	1.6	--	--	18
APR.											
06...	23400	7.4	390	70	13	2.8	6.7	1.4	--	--	11
MAY											
09...	8870	6.9	470	60	13	2.1	7.9	1.9	44	0	16
16...	30100	6.0	60	9	15	2.1	5.6	2.1	--	--	13
JUNE											
08...	6330	4.4	260	70	15	3.0	11	1.7	--	--	21
JULY											
21...	3490	6.6	60	11	19	3.3	13	2.0	--	--	23
AUG.											
24...	2660	6.0	20	10	18	3.8	17	2.5	--	--	31
SEP.											
12...	2670	5.9	110	74	16	4.0	19	3.0	--	--	38

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.											
06...	7.6	.2	--	.006	.5	.039	.055	104	100	.14	55
NOV.											
09...	16	.1	.65	.073	.4	.091	.12	126	113	.17	53
12...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
09...	6.8	.2	.72	.009	.6	.055	.27	89	90	.12	57
JAN.											
18...	2.7	.1	.40	.006	.2	.010	.10	59	49	.08	30
FEB.											
08...	4.8	.1	.40	.006	.2	.013	.070	76	68	.10	42
APR.											
06...	6.8	.1	.25	.015	.6	.007	.033	82	75	.11	44
MAY											
09...	6.6	.2	.38	.058	.4	.029	.095	--	80	.11	41
16...	4.4	.2	.60	.030	.9	.049	.13	80	74	.11	46
JUNE											
08...	11	.2	.32	.024	.5	.007	.016	97	92	.13	50
JULY											
21...	13	.4	.42	.040	.8	.023	.059	122	111	.17	61
AUG.											
24...	16	.1	.32	.001	.4	.003	.072	117	121	.16	61
SEP.											
12...	19	.2	.28	.003	.3	.055	.088	129	128	.18	57

02469762 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, ALA. (LOWER POOL)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.									
06...	10	.6	--	20	50	--	1.2	2	9000
NOV.									
09...	12	.9	7.0	65	65	37	.6	5	80
12...	--	--	--	--	--	--	--	--	--
DEC.									
09...	10	.4	--	70	620	42	2.9	--	36000
JAN.									
18...	8	.2	--	--	--	17	1.4	610	3300
FEB.									
08...	14	.3	--	75	70	34	2.2	2000	35000
APR.									
06...	7	.4	--	30	7	22	2.0	--	12000
MAY									
09...	5	.5	8.2	80	20	17	1.4	--	2100
16...	10	.4	--	60	65	24	1.2	--	7500
JUNE									
08...	13	.7	--	50	10	17	.8	--	2300
JULY									
21...	17	.7	--	--	20	11	1.3	120	1100
AUG.									
24...	17	1.0	--	25	20	16	--	6	900
SEP.									
12...	23	1.1	--	20	10	14	.6	10	120

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.								
12...	1	<1	<10	--	<1	<1	<.5	<10
MAY								
16...	<1	<1	--	<10	<1	<1	<.5	10

DATE	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
MAY							
16...	1	<1	1	5	9	<.05	24
JULY							
21...	1	<1	5	1	<1	<.05	7

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
06...	66	0	177	7.2	27.5	8.0
NOV.						
09...	--	--	190	--	20.0	9.7
DEC.						
09...	50	0	160	7.3	12.5	8.3
JAN.						
18...	27	0	83	6.7	10.0	9.5
FEB.						
08...	35	0	114	7.1	9.0	11.4
APR.						
06...	40	0	133	6.9	17.0	10.0
MAY						
09...	--	--	132	--	23.0	8.9
16...	40	0	124	6.9	23.0	9.1
JUNE						
08...	44	0	159	7.5	27.5	8.2
JULY						
21...	52	0	188	7.2	29.0	7.9
AUG.						
24...	51	0	192	7.2	31.0	7.8
SEP.						
12...	42	0	210	6.9	30.0	8.3

02469800 SATILPA CREEK NEAR COFFEEVILLE, ALA.

LOCATION.--Lat 31°44'39", long 88°01'21", in SE¼ sec. 13, T. 9 N., R. 1 W., Clarke County, at gaging station near left bank on downstream side of bridge on State Highway 12, 0.2 mile upstream from unnamed tributary, 3 miles downstream from Harris Creek, and 3.8 miles east of Coffeeville.

DRAINAGE AREA.--166 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 05...	18	14	740	70	29	1.2	2.7	.8	90	0	4.4	2.8
NOV. 09...	14	9.9	670	70	29	1.7	2.4	1.1	91	0	7.8	3.0
DEC. 06...	189	13	100	45	12	1.1	2.1	1.2	30	0	8.4	3.4
FEB. 09...	732	18	200	20	9.3	.9	1.7	.6	28	0	6.2	2.8
MAR. 29...	481	13	310	28	12	1.1	2.2	.6	--	--	4.8	4.0
APR. 26...	83	15	270	54	20	1.4	1.9	.7	--	--	4.2	3.6
JUNE 07...	18	7.7	0	2	31	1.7	2.2	.7	--	--	4.4	3.4
JULY 21...	16	13	180	93	26	1.6	2.3	.6	--	--	4.4	3.6
AUG. 23...	5.6	11	0	160	31	1.5	2.3	.9	--	--	4.2	5.0
SEP. 20...	4.4	10	180	130	31	1.4	3.3	1.0	--	--	4.2	5.8

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 05...	.1	.09	114	100	.16	80	6	.1	--	7.4	--	--
NOV. 09...	.0	.02	99	100	.13	80	6	.1	161	7.4	10.5	6
DEC. 06...	.1	.05	68	56	.09	35	11	.2	--	7.2	--	20
FEB. 09...	.2	.02	--	54	.07	27	4	.1	--	6.9	--	--
MAR. 29...	.1	.02	61	53	.08	35	7	.2	--	--	--	--
APR. 26...	.1	.02	92	78	.13	56	5	.1	--	--	--	--
JUNE 07...	.1	.02	99	99	.13	85	5	.1	--	--	--	--
JULY 21...	.2	.02	102	94	.14	72	2	.1	--	--	--	--
AUG. 23...	.0	.00	103	104	.14	84	4	.1	--	--	--	--
SEP. 20...	.1	.02	104	106	.14	84	2	.2	--	--	--	--

02469800 SATILPA CREEK NEAR COFFEEVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
05...	--	--	--	168	--	23.5	--
21...	15	--	--	170	--	19.0	--
DEC.							
06...	--	--	--	83	--	10.0	--
JAN.							
24...	531	--	--	78	--	16.0	--
FEB.							
09...	--	--	--	67	--	8.5	10.9
MAR.							
29...	--	36	0	82	6.8	19.0	8.8
APR.							
26...	--	65	0	126	7.4	17.5	8.6
JUNE							
07...	--	98	0	172	7.8	25.0	8.6
JULY							
21...	--	86	0	152	7.6	24.5	7.2
AUG.							
23...	--	98	0	174	7.7	26.5	8.4
SEP.							
20...	--	100	0	175	7.4	26.5	7.3
21...	5.4	--	--	--	--	17.0	--

02470040 TOMBIGBEE RIVER NEAR JACKSON, ALA.
(International hydrological decade station)

LOCATION.--Lat 31°31', long 87°56', in sec. 1, T. 6 N., R. 1 E., Clarke County, at gaging station on downstream side of bridge, near midstream, on U.S. Highway 43, 1 mile west of Jackson, 2.5 miles upstream from Southern Railroad bridge, 5 miles upstream from Bassett Creek, and 8.3 miles downstream from lock 1.

DRAINAGE AREA.--19,000 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1972.
Water temperatures: October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 33.5°C on several days during August.

Period of record:
Water temperatures: Maximum, 33.5°C on several days during August, 1972; minimum (1962-71), 5.0°C on several days during January 1970.

REMARKS.--No temperature data Jan. 26-Feb. 24 and Apr. 10-24 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 06...	7960	--	--	--	--	--	--	--	--	--
NOV. 04...	3400	--	--	--	--	--	--	--	--	--
DEC. 09...	65600	6.0	100	140	15	2.1	6.5	3.0	16	6.8
JAN. 18...	138000	--	--	--	--	--	--	--	--	--
FEB. 09...	53600	--	--	--	--	--	--	--	--	--
MAR. 30...	26000	7.7	300	30	14	2.7	7.2	1.6	19	6.8
APR. 26...	25500	--	--	--	--	--	--	--	--	--
JUNE 07...	6320	5.7	50	68	16	2.9	11	1.7	19	12
JULY 20...	3490	--	--	--	--	--	--	--	--	--
AUG. 23...	2900	--	--	--	--	--	--	--	--	--
SEP. 12...	2350	5.8	120	20	17	4.1	19	3.5	30	26

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
OCT. 06...	--	--	--	--	--	--	--	--	--
NOV. 04...	--	--	--	--	--	--	--	--	--
DEC. 09...	.1	--	--	.2	--	--	100	78	.14
JAN. 18...	--	--	--	--	--	--	--	--	--
FEB. 09...	--	--	--	--	--	--	--	--	--
MAR. 30...	.1	--	--	.5	--	--	71	81	.10
APR. 26...	--	--	--	--	--	--	--	--	--
JUNE 07...	.2	--	--	.4	--	--	92	92	.13
JULY 20...	--	--	--	--	--	--	--	--	--
AUG. 23...	--	--	--	--	--	--	--	--	--
SEP. 12...	.2	.51	.018	.2	.013	.11	128	124	.17

02470040 TOMBIGBEE RIVER NEAR JACKSON, ALA.--Continued
(International hydrological decade station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.									
06...	--	--	--	--	--	--	.8	12	1700
NOV.									
04...	--	--	--	--	--	--	2.7	46	670
DEC.									
09...	46	12	.4	--	--	--	3.4	--	24000
JAN.									
18...	--	--	--	--	--	--	1.6	280	2500
FEB.									
09...	--	--	--	--	--	--	2.6	1100	39000
MAR.									
30...	46	13	.5	--	--	--	1.5	--	3700
APR.									
26...	--	--	--	--	--	--	1.6	--	170
JUNE									
07...	52	16	.7	--	--	--	1.1	--	500
JULY									
20...	--	--	--	--	--	--	1.2	30	1200
AUG.									
23...	--	--	--	--	--	--	--	17	1700
SEP.									
12...	60	31	1.1	15	10	17	.8	7	230

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
06...	48	0	195	7.1	27.5	8.0
NOV.						
04...	48	0	186	7.3	23.0	8.7
DEC.						
09...	42	0	146	6.9	12.0	8.3
JAN.						
18...	27	0	84	6.7	9.5	9.2
FEB.						
09...	41	0	120	7.1	9.0	11.4
MAR.						
30...	41	0	146	7.1	17.5	9.6
APR.						
26...	38	0	128	7.2	22.5	9.0
JUNE						
07...	44	0	158	7.3	27.0	7.9
JULY						
20...	48	0	164	7.1	29.0	7.8
AUG.						
23...	51	0	204	7.5	32.0	8.4
SEP.						
12...	36	0	225	6.5	30.0	7.8

RADIOCHEMICAL ANALYSES

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (PLANCHET COUNT) (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
NOV.								
04...	1.9	4.4	4.1	5.1	3.1	--	.05	.09
JAN.								
18...	.7	5.5	3.0	3.7	2.7	--	.04	.09
AUG.								
23...	<1.0	.6	3.3	4.2	.5	<.1	--	.04

02470040 TOMBIGBEE RIVER NEAR JACKSON, ALA.--Continued
(International hydrological decade station)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL- ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	28.0	27.5	23.5	23.5	15.5	15.0	14.0	14.0	---	---	15.0	14.5
2	29.5	28.0	26.0	23.5	15.0	14.5	14.0	14.0	---	---	15.5	15.0
3	29.5	29.0	26.0	26.0	14.5	13.5	14.0	14.0	---	---	16.0	15.5
4	29.5	29.0	26.0	23.0	13.5	12.5	14.0	14.0	---	---	16.0	15.5
5	30.0	29.5	23.0	22.0	12.5	12.5	14.5	14.0	---	---	15.5	15.0
6	30.0	30.0	22.0	21.5	12.5	12.0	14.5	13.5	---	---	15.0	15.0
7	30.5	29.5	21.5	21.5	12.0	12.0	13.5	12.5	---	---	15.0	14.5
8	29.5	29.0	21.5	20.5	12.0	12.0	12.5	11.5	---	---	14.5	14.5
9	29.0	29.0	20.5	20.0	12.0	11.5	11.5	11.0	---	---	14.5	14.0
10	29.0	28.5	20.0	20.0	12.0	11.5	11.0	11.0	---	---	14.0	13.5
11	28.5	27.5	20.0	19.0	12.5	12.0	11.0	11.0	---	---	13.5	13.5
12	27.5	27.0	19.0	19.0	13.0	12.5	11.0	11.0	---	---	14.0	13.5
13	27.0	27.0	19.0	19.0	13.0	13.0	12.0	11.0	---	---	14.5	14.0
14	27.0	27.0	19.0	19.0	13.5	13.0	12.0	12.0	---	---	14.5	14.5
15	27.5	27.0	19.0	19.0	14.5	13.5	12.0	11.5	---	---	15.5	14.5
16	27.5	27.5	19.0	19.0	15.0	14.5	11.5	10.5	---	---	16.0	15.5
17	27.5	27.0	19.0	19.0	15.5	15.0	10.5	9.5	---	---	14.5	14.0
18	27.5	27.0	19.0	19.0	15.5	15.5	9.5	9.0	---	---	14.5	14.5
19	28.0	27.5	19.0	19.0	15.5	15.0	9.0	9.0	---	---	14.5	14.5
20	27.5	27.0	19.0	18.5	15.0	15.0	9.5	9.0	---	---	16.5	16.5
21	27.0	27.0	18.5	18.0	15.0	15.0	9.5	9.5	---	---	17.0	16.5
22	27.0	26.5	18.0	17.5	15.0	14.5	9.5	9.5	---	---	17.5	17.0
23	26.5	26.0	17.5	17.0	14.5	13.5	10.0	9.5	---	---	17.5	17.5
24	26.0	26.0	17.0	16.5	13.5	13.0	11.0	10.0	---	---	17.5	17.5
25	26.5	26.0	16.5	16.0	13.0	13.0	12.0	11.0	13.0	12.5	17.5	17.5
26	26.5	26.0	16.0	16.0	13.0	13.0	---	---	13.5	13.0	17.5	17.5
27	26.0	25.0	16.0	15.5	13.0	13.0	---	---	13.5	13.5	17.5	17.5
28	25.0	24.0	15.5	15.5	13.0	13.0	---	---	14.0	13.5	17.5	17.5
29	24.0	24.0	15.5	15.5	13.5	13.0	---	---	14.5	14.0	18.0	17.5
30	24.0	24.0	15.5	15.5	13.5	13.5	---	---	---	---	18.0	18.0
31	24.0	23.5	---	---	14.0	13.5	---	---	---	---	18.0	18.0
MONTH	30.5	23.5	26.0	15.5	15.5	11.5	14.5	9.0	---	---	18.0	13.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	18.0	23.0	23.0	26.5	26.5	30.5	30.0	32.0	31.5	32.0	31.5
2	18.0	18.0	23.5	23.0	26.5	26.0	30.5	30.5	32.0	32.0	31.5	31.5
3	18.0	17.5	23.5	23.5	26.5	26.0	30.5	30.5	32.5	32.0	31.5	31.5
4	17.5	17.5	23.5	23.0	26.5	26.5	30.5	30.5	33.0	32.5	31.5	31.5
5	17.5	17.5	23.0	23.0	27.0	26.5	30.5	30.5	33.0	33.0	31.5	31.5
6	18.0	17.5	23.0	23.0	28.0	27.0	30.5	30.0	33.0	33.0	32.0	31.5
7	18.5	18.0	23.0	23.0	28.5	28.0	30.0	30.0	33.5	33.0	31.5	31.5
8	18.5	18.5	23.0	23.0	29.0	28.5	30.0	30.0	33.5	33.0	31.5	31.5
9	18.5	18.5	23.0	23.0	29.0	29.0	30.0	30.0	33.5	33.0	32.0	31.5
10	---	---	23.0	23.0	29.0	29.0	30.0	30.0	33.0	32.5	32.0	32.0
11	---	---	23.0	23.0	29.0	29.0	30.0	29.5	33.0	32.0	32.0	31.5
12	---	---	23.0	23.0	29.5	29.0	30.5	30.0	32.5	32.0	31.5	31.5
13	---	---	23.0	23.0	29.5	28.5	30.5	30.0	32.5	32.0	31.5	31.5
14	---	---	23.5	23.0	29.0	29.0	30.0	29.5	32.0	32.0	31.5	31.5
15	---	---	23.5	23.5	29.5	29.0	30.0	29.5	32.0	32.0	31.5	31.5
16	---	---	23.5	23.0	29.5	29.5	29.5	29.5	32.5	31.5	31.5	31.5
17	---	---	23.0	23.0	30.0	29.5	30.0	29.5	32.5	32.0	31.5	31.5
18	---	---	23.5	23.0	30.0	30.0	31.0	30.0	33.0	32.0	31.5	31.5
19	---	---	23.5	23.5	30.0	29.5	31.0	30.5	33.5	32.5	31.5	31.5
20	---	---	23.5	23.5	29.5	29.0	31.0	31.0	33.0	33.0	31.5	31.5
21	---	---	24.0	23.5	30.0	29.0	31.5	31.0	33.0	33.0	31.5	31.5
22	---	---	24.5	24.0	30.0	30.0	31.5	31.0	33.0	33.0	31.5	31.5
23	---	---	25.0	24.5	30.5	30.0	32.0	31.5	33.0	33.0	31.5	31.0
24	---	---	25.0	25.0	30.5	30.0	32.0	31.5	33.0	33.0	31.0	31.0
25	23.0	23.0	25.0	25.0	30.5	30.5	32.0	32.0	33.5	33.0	31.0	31.0
26	23.0	23.0	25.5	25.0	30.5	30.5	32.0	31.5	33.0	33.0	31.0	31.0
27	23.0	23.0	25.5	25.5	31.0	30.5	32.0	32.0	33.5	33.0	31.0	31.0
28	23.0	23.0	26.0	25.5	31.0	30.5	32.0	32.0	33.0	32.5	31.0	30.5
29	23.0	23.0	26.0	26.0	31.0	30.0	32.0	32.0	33.0	32.5	30.5	30.5
30	23.0	23.0	26.0	26.0	30.0	29.5	32.0	31.5	32.5	32.0	30.5	30.5
31	---	---	26.5	26.0	---	---	31.5	31.0	32.0	32.0	---	---
MONTH	---	---	26.5	23.0	31.0	26.0	32.0	29.5	33.5	31.5	32.0	30.5

02470520 CEDAR CREEK BELOW BRANCH NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°07'10", long 88°12'28", in NW¼SW¼ sec. 20, T. 2 N., R. 2 W., Mobile County, at left bank, 1.8 miles upstream from Hector Branch, 2.5 miles northeast of Citronelle, Ala., and 3 miles upstream from County Road 96 crossing.

DRAINAGE AREA.--3.59 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	.60	3	0	26	19	17	99	5.8	22.0
30...	.50	4	0	25	16	13	106	5.6	12.0
DEC.									
28...	.60	2	0	18	11	10	70	5.8	18.0
FEB.									
01...	2.0	2	0	14	12	11	55	5.5	12.0
29...	1.5	4	0	16	12	9	68	5.8	17.0
MAR.									
30...	2.0	0	0	16	14	14	103	4.5	18.0
MAY									
25...	2.0	7	0	13	10	5	59	6.3	21.0
JUNE									
29...	3.0	0	0	21	15	15	129	4.2	24.0
SEP.									
28...	2.5	3	0	33	16	14	109	5.3	24.0

02470560 LITTLE CREEK AT CITRONELLE, ALA.

LOCATION.--Lat 31°04'04", long 88°10'25", in NW¼NW¼ sec. 10, T. 1 N., R. 2 W., Mobile County, at private road bridge, 2.8 miles upstream from mouth, and 4.2 miles southeast of Citronelle, Ala.

DRAINAGE AREA.--10.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	3.0	1	0	78	41	40	270	4.9	21.0
30...	2.5	1	0	95	50	49	348	4.9	12.0
DEC.									
28...	3.0	7	0	70	34	29	224	6.3	17.0
FEB.									
01...	3.0	4	0	32	32	29	123	6.6	9.0
29...	3.0	4	0	42	24	21	157	6.0	18.0
MAR.									
30...	3.0	4	0	48	26	23	176	5.7	18.0
APR.									
27...	3.4	6	0	50	28	23	178	6.2	18.5
MAY									
25...	3.0	5	0	94	50	46	340	6.1	23.0
JUNE									
29...	10	6	0	50	30	25	192	6.2	24.0
SEP.									
28...	3.0	10	0	65	38	30	210	6.7	24.5

02470910 CHICKASAW CREEK AT COUNTY BRIDGE NEAR GULFCREST, ALA.

LOCATION.--Lat 31°00'28", long 88°13'30", in SW¼NW¼ sec. 31, T. 1 N., R. 2 W., Mobile County, at bridge on unimproved road, 1.0 mile northeast of Gulfcrest, Ala., 2.2 miles upstream from Sand Hill Creek, and 3.9 miles upstream from Sweetwater Branch.

DRAINAGE AREA.--9.03 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	3.0	6	0	4.4	8	3	25	6.7	20.0
30...	3.0	0	0	5.2	10	10	38	4.5	11.0
DEC.									
28...	3.0	2	0	4.4	8	7	25	6.0	16.0
FEB.									
01...	5.0	5	0	3.2	10	1	27	6.6	10.0
29...	4.0	5	0	3.2	8	4	26	6.2	17.0
MAR.									
30...	8.0	5	0	3.6	4	0	22	6.8	17.0
JUNE									
29...	4.0	4	0	4.8	6	3	28	6.0	25.0
SEP.									
28...	5.0	6	0	4.8	8	3	24	6.6	21.0

02471001 CHICKASAW CREEK NEAR KUSHLA, ALA.

LOCATION.--Lat 30°48'10", long 88°08'36", in NE¼ sec. 11, T. 3 S., R. 2 W., Mobile County, at gaging station on left bank at upstream side of highway bridge, 0.7 mile upstream from Seabury Creek, 1.4 miles southeast of Kushla, and 7 miles northwest of Mobile.

DRAINAGE AREA.--125 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, and 1969 as Chickasaw Creek near Whistler.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
05...	101	9.5	170	10	.4	.5	2.2	.3	4	0	1.2
NOV.											
04...	204	8.8	200	--	1.2	1.0	2.0	1.2	4	0	4.4
DEC.											
06...	183	8.3	60	57	1.0	.6	2.0	.9	2	0	4.2
FEB.											
09...	479	7.6	160	28	1.0	.6	1.9	.8	2	0	3.6
MAR.											
29...	372	6.1	280	26	.8	.6	2.3	.3	--	--	2.4
APR.											
26...	111	6.0	260	50	.6	.5	2.0	.4	--	--	1.6
JUNE											
07...	96	5.1	170	13	.5	.5	2.0	.3	--	--	2.0
JULY											
20...	105	8.9	300	28	.7	.5	2.0	.3	--	--	2.0
AUG.											
23...	76	8.9	110	17	1.0	.5	2.3	.5	--	--	2.8
SEP.											
20...	48	7.3	310	10	.8	.6	2.2	.5	--	--	1.6

02471001 CHICKASAW CREEK NEAR KUSHLA, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 05...	3.2	.0	.07	16	20	.02	3	0	.5	5.8	--
NOV. 04...	3.4	.1	.07	35	24	.05	7	4	.3	5.8	7
DEC. 06...	3.6	.1	.00	23	22	.03	5	4	.4	5.7	10
FEB. 09...	3.6	.2	.09	29	21	.04	5	4	.4	5.0	--
MAR. 29...	3.2	.1	.00	21	18	.03	5	2	.5	--	--
APR. 26...	3.2	.0	.07	24	17	.03	4	1	.5	--	--
JUNE 07...	3.4	.1	.05	--	15	.02	3	2	.5	--	--
JULY 20...	3.6	.1	.02	--	19	.03	4	2	.4	--	--
AUG. 23...	3.2	.0	.05	27	21	.04	5	2	.5	--	--
SEP. 20...	4.4	.0	.05	21	19	.03	5	3	.5	--	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 05...	--	--	--	23	--	23.0	--
20...	80	--	--	25	--	18.5	--
NOV. 04...	--	--	--	32	--	17.5	--
DEC. 01...	184	--	--	30	--	11.0	--
06...	--	--	--	28	--	12.5	--
JAN. 26...	297	--	--	--	--	17.0	--
FEB. 09...	--	--	--	25	--	10.5	10.8
MAR. 01...	183	--	--	--	--	18.5	--
29...	--	4	0	24	5.4	19.0	8.7
APR. 26...	--	4	0	21	5.8	17.0	8.9
JUNE 07...	--	3	0	20	5.6	21.5	8.2
JULY 20...	--	3	0	21	5.6	23.5	7.9
25...	100	--	--	25	--	--	--
AUG. 23...	--	4	0	23	5.8	24.0	8.0
30...	64	--	--	25	--	23.0	--
SEP. 20...	--	2	0	21	5.9	27.0	8.4

MOBILE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)
02398300 CHATTOOGA RIVER ABOVE GAYLESVILLE, ALA. (LAT 34 17 25 LONG 085 30 33)									
JAN., 1972 06...	4410	56	0	4.0	44	0	--	7.5	--
FIELD ANALYSES									
JAN., 1972 06...	--	--	--	--	--	--	120	--	6.0
02399200 LITTLE RIVER NEAR BLUE POND, ALA. (LAT 34 17 20 LONG 085 40 50)									
FIELD ANALYSES									
OCT., 1971 20...	11	--	--	--	--	--	--	--	19.5
NOV. 29...	26	--	--	--	--	--	--	--	9.0
JAN., 1972 05...	4110	--	--	--	--	--	20	--	8.0
APR. 14...	274	--	--	--	--	--	20	--	16.0
MAY 24...	174	--	--	--	--	--	20	--	10.0
JULY 14...	18	--	--	--	--	--	25	--	26.0
02401387 HUCKLEBERRY SPRING NEAR WHITNEY, ALA. (LAT 33 53 45 LONG 086 18 41)									
FIELD ANALYSES									
OCT., 1971 20...	2.7	--	--	--	--	--	240	--	16.0
NOV. 30...	2.0	--	--	--	--	--	--	--	15.0
FEB., 1972 24...	12	--	--	--	--	--	165	--	16.0
APR. 11...	13	--	--	--	--	--	220	--	16.0
MAY 23...	9.3	--	--	--	--	--	180	--	15.0
JULY 12...	2.6	--	--	--	--	--	235	--	15.5
AUG. 24...	2.1	--	--	--	--	--	--	--	15.5
02405500 KELLY CREEK NEAR VINCENT, ALA. (LAT 33 26 51 LONG 086 23 13)									
SEP., 1972 07...	32	54	0	2.0	44	0	92	6.7	--
02406000 TALLADEGA CREEK NEAR TALLADEGA, ALA. (LAT 33 23 26 LONG 086 06 45)									
OCT., 1971 13...	30	30	0	1.0	28	4	62	6.9	17.5
02406500 TALLADEGA CREEK AT ALPINE, ALA. (LAT 33 21 34 LONG 086 14 03)									
OCT., 1971 14...	--	128	0	7.0	110	5	235	7.6	16.0
02410000 PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 56 LONG 086 07 40)									
SEP., 1972 04...	1.0	20	0	2.0	16	0	--	6.8	--
FIELD ANALYSES									
JUNE, 1972 12...	2.4	--	--	--	--	--	--	--	19.0
SEP. 04...	--	--	--	--	--	--	60	--	20.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02415000 HILLABEE CREEK NEAR HACKNEYVILLE, ALA. (LAT 33 04 00 LONG 085 52 45)

FIELD ANALYSES

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	TEMP- ERATURE (DEG C)
DEC., 1971			
02...	151	40	6.5

02419890 TALLAPOOSA RIVER NEAR MONTGOMERY, ALA. (LAT 32 26 23 LONG 086 11 44)

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
DEC., 1971								
07...	--	9.0	--	--	3.0	1.1	3.9	1.4
JUNE, 1972								
20...	500	10	150	240	3.0	1.3	3.0	.8

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	SODIUM AD- SORP- TION RATIO
DEC., 1971									
07...	3.2	3.2	.1	.1	38	33	.05	12	.5
JUNE, 1972									
20...	2.8	3.2	.1	.05	43	33	.06	13	.4

FIELD ANALYSES

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
DEC., 1971						
07...	16	0	52	6.8	13.0	--
JUNE, 1972						
20...	18	0	48	6.8	22.5	6.7

02422500 MULBERRY CREEK AT JONES, ALA. (LAT 32 34 56 LONG 086 56 13)

FIELD ANALYSES

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	TEMP- ERATURE (DEG C)
JUNE, 1972			
14...	98	48	27.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02423390 CAHABA RIVER AT PUMP STATION NEAR BIRMINGHAM, ALA. (LAT 33 27 00 LONG 086 42 18)

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
DEC., 1971									
07...	8.0	--	--	8.3	2.6	5.1	2.2	15	2.4
JUNE, 1972									
26...	6.0	40	38	28	5.7	6.5	2.8	14	5.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
DEC., 1971								
07...	.1	.2	63	63	.09	31	3	.4
JUNE, 1972								
26...	.1	.05	116	123	.16	94	0	.3

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
DEC., 1971						
07...	34	0	106	7.2	12.0	--
JUNE, 1972						
26...	110	0	225	7.7	22.5	5.9

02425000 CAHABA RIVER NEAR MARION JUNCTION, ALA. (LAT 32 26 30 LONG 087 10 40)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT., 1971			
26...	1050	165	20.0
NOV.			
29...	1090	140	11.0
JAN., 1972			
18...	5430	120	7.5
MAR.			
13...	4160	100	14.0
JUNE			
13...	761	180	26.0
SEP.			
19...	476	--	26.5

02425500 CEDAR CREEK AT MINTER, ALA. (LAT 32 04 45 LONG 086 59 02)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT., 1971			
21...	16	210	21.0
DEC.			
02...	54	180	7.0
MAR., 1972			
02...	14500	71	--
03...	7220	98	--
03...	1580	149	--
07...	292	280	14.5
JUNE			
15...	24	200	24.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

[illegible] [illegible] CREEK NEAR [illegible], ALA. (LAT 31 26 10 LONG 087 20 00)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
26...	14	--	--	--	--	--	120	--	19.5
JAN., 1972									
17...	138	--	--	--	--	--	90	--	6.0
MAR.									
06...	174	--	--	--	--	--	100	--	10.5

[illegible] LIMESTONE CREEK NEAR MONROEVILLE, ALA. (LAT 31 33 45 LONG 087 21 06)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
21...	62	58	0	9.6	48	1	--	7.7	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
21...	--	--	--	--	--	--	140	--	17.5
DEC.									
02...	219	--	--	--	--	--	80	--	9.0
SEP., 1972									
21...	21	--	--	--	--	--	--	--	17.0

[illegible] [illegible] CREEK NEAR URIAH, ALA. (LAT 31 17 50 LONG 087 31 30)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
APR., 1972									
26...	2.0	6	0	2.0	6	1	19	6.1	16.0

[illegible] LITTLE RIVER NEAR URIAH, ALA. (LAT 31 16 31 LONG 087 36 50)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
29...	67	--	--	--	--	--	20	--	18.0
DEC.									
02...	192	--	--	--	--	--	40	--	12.0
JAN., 1972									
12...	182	--	--	--	--	--	20	--	--
MAR.									
03...	128	--	--	--	--	--	--	--	16.5
JUNE									
09...	60	--	--	--	--	--	20	--	22.0
JULY									
24...	67	--	--	--	--	--	35	--	24.5
AUG.									
29...	57	--	--	--	--	--	25	--	22.0

[illegible] MILL CREEK NEAR DETROIT, ALA. (LAT 33 59 26 LONG 088 05 12)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
01...	2.5	8	0	2.0	6	0	10	6.5	20.0

[illegible] [illegible] BRANCH NEAR DETROIT, ALA. (LAT 33 58 26 LONG 088 05 47)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
01...	1.0	8	0	2.0	6	0	23	6.7	20.0

[illegible] BUTTAHATCHEE RIVER NEAR SULLIGENT, ALA. (LAT 33 55 15 LONG 088 08 20)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JAN., 1972									
11...	3050	--	--	--	--	--	--	--	13.5

[illegible] UNNAMED TRIBUTARY TO SIPSEY CREEK NEAR DETROIT, ALA. (LAT 34 00 20 LONG 088 09 20)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
01...	3.0	8	0	1.0	8	2	21	6.8	20.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

[illegible] [illegible] BRANCH NEAR [illegible], ALA. (LAT 34 02 16 LONG 088 08 30)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971 01...	1.5	8	0	2.0	6	0	20	7.3	20.0

[illegible] COAL FIRE CREEK NEAR PICKENSVILLE, ALA. (LAT 33 17 31 LONG 088 15 36)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971 05...	36	--	--	--	--	--	36	--	21.5
NOV. 16...	33	--	--	--	--	--	28	--	12.5
DEC. 29...	129	--	--	--	--	--	30	--	13.5
MAR., 1972 23...	136	--	--	--	--	--	34	--	16.5
MAY 08...	49	--	--	--	--	--	31	--	20.0
JUNE 20...	25	--	--	--	--	--	33	--	23.0
JULY 25...	12	--	--	--	--	--	30	--	24.5
SEP. 14...	17	--	--	--	--	--	30	--	23.0

[illegible] SIPSEY RIVER NEAR ELROD, ALA. (LAT 33 13 25 LONG 087 43 46)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971 05...	148	14	0	2.4	33	21	78	--	22.5

[illegible] NOXUBEE RIVER NEAR GEIGER, ALA. (LAT 32 51 56 LONG 088 17 45)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY, 1972 08...	316	64	0	6.0	60	8	--	7.6	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971 09...	191	--	--	--	--	--	154	--	21.5
NOV. 16...	84	--	--	--	--	--	142	--	13.0
FEB., 1972 10...	2140	--	--	--	--	--	141	--	7.0
MAR. 27...	341	--	--	--	--	--	142	--	14.5
MAY 08...	--	--	--	--	--	--	147	--	22.5
JUNE 20...	82	--	--	--	--	--	112	--	27.0
JULY 25...	123	--	--	--	--	--	130	--	28.0
SEP. 14...	70	--	--	--	--	--	85	--	27.0

[illegible] BLUE SPRING NEAR BLOUNTSVILLE, ALA. (LAT 34 09 09 LONG 086 35 16)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971 21...	.44	--	--	--	--	--	143	--	13.0
NOV. 30...	.35	--	--	--	--	--	--	--	14.5
FEB., 1972 23...	1.1	--	--	--	--	--	130	--	--
APR. 11...	.87	--	--	--	--	--	125	--	15.0
MAY 23...	1.1	--	--	--	--	--	140	--	15.5
JULY 12...	.78	--	--	--	--	--	135	--	16.0
AUG. 23...	.75	--	--	--	--	--	145	--	16.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02450100 MULBERRY FORK NEAR ARKADELPHIA, ALA. (LAT 33 52 19 LONG 086 55 20)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1971									
22...	34	--	--	--	--	--	--	--	8.5
SEP., 1972									
14...	13	--	--	--	--	--	--	--	25.0

02453910 LOST CREEK NEAR JASPER, ALA. (LAT 33 48 36 LONG 87 23 02)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAR., 1972									
20...	6.2	6	0	2.2	12	7	--	6.6	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAR., 1972									
20...	--	--	--	--	--	--	30	--	12.5

02456420 COVE SPRING NEAR WALNUT GROVE, ALA. (LAT 34 06 30 LONG 086 15 10)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
21...	1.7	--	--	--	--	--	265	--	15.5
FEB., 1972									
23...	2.0	--	--	--	--	--	200	--	--
APR.									
10...	3.0	--	--	--	--	--	220	--	15.0
MAY									
22...	3.2	--	--	--	--	--	215	--	15.0
JULY									
13...	2.1	--	--	--	--	--	265	--	15.0
AUG.									
23...	1.5	--	--	--	--	--	267	--	16.0

02455000 LOCUST FORK NEAR CLEVELAND, ALA. (LAT 34 02 00 LONG 086 34 00)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
22...	33	52	0	6.0	64	22	--	7.1	--
MAY, 1972									
03...	111	42	0	4.4	42	8	--	6.9	--
AUG.									
24...	17	36	0	.7	72	20	--	6.4	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
22...	--	--	--	--	--	--	163	--	20.0
MAY, 1972									
03...	--	--	--	--	--	--	115	--	19.0
23...	150	--	--	--	--	--	110	--	20.0
JULY									
12...	26	--	--	--	--	--	120	--	25.5
AUG.									
24...	--	--	--	--	--	--	180	--	28.0

02456000 TURKEY CREEK AT MORRIS, ALA. (LAT 33 44 25 LONG 086 48 45)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
22...	19	160	0	5.0	160	26	--	7.6	--
JULY, 1972									
18...	19	132	0	13	130	20	--	7.0	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1971									
22...	--	--	--	--	--	--	263	--	--
NOV.									
29...	33	--	--	--	--	--	300	--	9.5
FEB., 1972									
22...	105	--	--	--	--	--	200	--	10.5
APR.									
11...	98	--	--	--	--	--	190	--	16.5
JULY									
18...	--	--	--	--	--	--	260	--	25.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

02457700 FIVEMILE CREEK AT LINN CROSSING (LAT 33 40 04 LONG 086 57 35)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB., 1972											
17...	199	11	10	410	35	18	35	6.7	95	0	141
APR.											
06...	125	11	20	42	31	15	35	4.0	--	--	120
MAY											
08...	62	12	120	450	34	19	82	9.5	--	--	210
JUNE											
23...	8.0	11	240	230	48	21	80	25	--	--	180

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB., 1972										
17...	11	.4	1.4	335	311	.46	160	62	1.2	7.3
APR.										
06...	8.8	.3	1.3	284	236	.39	140	48	1.3	--
MAY										
08...	15	.9	.7	--	478	.65	160	5	2.8	--
JUNE										
23...	29	1.0	4.7	537	513	.73	210	49	2.4	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB., 1972						
17...	--	--	530	--	10.0	10.0
APR.						
06...	112	0	500	7.5	15.0	11.0
MAY						
08...	189	0	795	7.0	20.9	7.5
JUNE						
23...	197	0	819	7.8	23.0	8.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
02462800 DAVIS CREEK BELOW ABERNANT, ALA. (LAT 33 18 30 LONG 087 13 10)									
OCT., 1971									
06...	2.8	58	0	2.0	56	9	137	7.4	21.0
02465500 FIVEMILE CREEK NEAR GREENSBORO, ALA. (LAT 32 49 57 LONG 087 36 24)									
OCT., 1971									
06...	8.5	12	0	2.0	12	2	--	6.7	--
NOV.									
08...	16	8	0	2.6	12	6	--	6.9	--
MAR., 1972									
24...	64	12	0	2.6	10	0	--	7.0	--
MAY									
05...	25	10	0	--	8	0	--	7.3	--
FIELD ANALYSES									
OCT., 1971									
06...	--	--	--	--	--	--	31	--	22.0
NOV.									
08...	--	--	--	--	--	--	25	--	10.5
DEC.									
28...	54	--	--	--	--	--	24	--	13.0
FEB., 1972									
04...	228	--	--	--	--	--	27	--	7.0
MAR.									
24...	--	--	--	--	--	--	28	--	15.0
MAY									
05...	--	--	--	--	--	--	29	--	18.0
JUNE									
19...	14	--	--	--	--	--	32	--	23.5
21...	10	--	--	--	--	--	46	--	--
JULY									
26...	4.9	--	--	--	--	--	40	--	24.0
SEP.									
13...	7.2	--	--	--	--	--	40	--	23.0
02470610 CEDAR CREEK AT CEDAR CREEK FALLS, ALA. (LAT 31 03 23 LONG 088 04 23)									
FEB., 1972									
29...	30	4	0	12	12	9	56	6.0	18.0

02479438 BEAVER POND BRANCH NEAR CITRONELLE, Ala.

LOCATION.--Lat 31°06'45", long 88°14'47", in NE¼SE¼ sec. 26, T. 2 N., R. 3 W., Mobile County, at left bank at private bridge, 2.1 miles upstream from Sandy Fork Branch, and 1.4 miles north of Citronelle, Ala.

DRAINAGE AREA.--0.56 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous sample of chemical data published for water year 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	1.5	2	0	190	98	97	651	5.1	20.5
30...	1.5	7	0	170	100	95	639	5.6	12.0
DEC.									
28...	2.0	8	0	140	80	74	592	5.7	17.0
FEB.									
01...	2.0	8	0	150	92	85	461	6.4	11.0
29...	1.5	6	0	160	92	87	600	5.6	17.0
MAR.									
30...	1.0	4	0	170	92	89	590	5.6	17.0
APR.									
27...	1.5	6	0	190	94	89	599	5.8	19.5
MAY									
25...	1.5	6	0	170	110	110	590	6.5	24.0
JUNE									
29...	2.0	1	0	220	120	120	745	4.7	--
SEP.									
28...	1.5	2	0	230	160	160	669	5.0	24.0

02479439 UNNAMED TRIBUTARY TO BEAVER POND BRANCH AT U.S. HIGHWAY 45, ALA.

LOCATION.--Lat 31°07'03", long 88°15'50", in NE¼SE¼ sec. 23, T. 2 N., R. 3 W., Mobile County, at right bank, at culvert on U.S. Highway 45, 1.8 miles north of Citronelle, Ala., 0.1 mile upstream from mouth.

DRAINAGE AREA.--0.46 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	.50	0	0	150	68	68	519	3.9	21.0
30...	.50	7	0	46	26	21	176	5.9	11.0
DEC.									
28...	.70	8	0	17	14	8	67	6.4	17.5
FEB.									
01...	.80	7	0	10	12	7	51	6.2	10.0
29...	.60	6	0	12	12	7	58	6.2	18.0
MAR.									
30...	.80	9	0	13	12	5	58	6.3	17.0
APR.									
27...	.40	6	0	20	18	13	72	6.0	18.5
JUNE									
29...	.50	9	0	20	20	13	92	6.6	--
SEP.									
28...	.10	10	0	22	20	12	88	6.0	24.0

02479447 BEAVER POND BRANCH AT MOUTH, ALA.

LOCATION.--Lat 31°06'54", long 88°18'10", in N½NE¼ sec. 29, T. 2 N., R. 3 W., Mobile County, at right bank, 0.8 mile downstream from Mill Branch, 4 miles west of Citronelle, Ala., and 0.1 mile upstream from mouth.

DRAINAGE AREA.--8.53 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV. 02...	4.0	2	0	60	56	55	280	5.2	21.5
30...	4.0	2	0	82	48	47	280	5.1	13.0
DEC. 28...	4.0	6	0	50	30	25	180	6.0	17.0
FEB. 01...	6.0	4	0	39	24	20	144	6.2	10.0
29...	5.0	4	0	45	24	21	170	5.8	17.0
MAR. 30...	6.0	4	0	49	32	29	170	6.0	17.0
APR. 27...	5.0	2	0	54	34	33	200	5.1	20.0
MAY 25...	5.0	7	0	48	30	25	175	6.4	21.0
JUNE 29...	6.0	5	0	73	40	36	255	6.1	--
SEP. 28...	3.5	3	0	85	46	44	262	5.8	26.0

02479465 PUPPY CREEK AT CITRONELLE, ALA.

LOCATION.--Lat 31°04'24", long 88°14'50", in NE¼SE¼ sec. 2, T. 1 N., R. 3 W., Mobile County, at private road bridge approximately 14 miles upstream from mouth, and 1.2 miles southwest of Citronelle, Ala.

DRAINAGE AREA.--2.74 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970 (partial-record station), October 1970 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV. 02...	1.5	8	0	380	220	210	1210	5.6	21.0
30...	1.0	10	0	320	200	190	1110	5.9	10.0
DEC. 28...	1.0	15	0	190	120	110	695	6.4	17.0
FEB. 01...	2.0	13	0	130	100	90	465	6.5	10.0
29...	1.0	13	0	170	100	90	550	6.4	17.0
MAR. 30...	1.0	13	0	180	120	110	608	6.3	17.0
APR. 27...	.50	18	0	200	100	85	630	6.3	18.0
MAY 25...	.50	17	0	140	86	72	535	6.6	23.0
JUNE 29...	1.0	15	0	210	120	110	732	5.8	--
SEP. 28...	1.0	46	0	210	120	83	689	6.7	23.0

02479466 PUPPY CREEK ON RUSSELL ROAD NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°03'21", long 88°15'00", in SW¼SE¼ sec. 11, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, and 2.6 miles southwest of Citronelle, Ala.

DRAINAGE AREA.--4.30 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	2.0	8	0	300	170	160	990	5.7	20.5
30...	4.0	2	0	260	140	140	900	5.2	9.0
DEC.									
28...	2.0	10	0	160	100	92	555	6.4	16.5
FEB.									
01...	6.0	10	0	92	60	52	328	7.1	10.0
29...	3.0	10	0	110	80	72	410	6.2	17.0
MAR.									
30...	3.0	12	0	120	72	62	400	6.5	17.0
APR.									
27...	2.0	0	0	1200	600	600	3600	3.8	19.0
MAY									
25...	2.0	10	0	320	160	150	1070	6.4	23.0
JUNE									
29...	2.0	23	0	190	110	91	649	6.5	--
SEP.									
28...	3.0	28	0	200	100	77	609	6.8	22.0

02479467 UNNAMED TRIBUTARY TO PUPPY CREEK NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°03'22", long 88°16'05", in NW¼NE¼ sec. 15, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, 1.5 miles from mouth, and 3.0 miles southwest of Citronelle, Ala.

DRAINAGE AREA.--2.84 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1971 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	2.5	7	0	22	19	14	86	7.1	20.0
30...	3.0	3	0	31	24	22	119	5.5	10.0
DEC.									
28...	2.0	4	0	22	14	11	75	5.9	16.0
FEB.									
01...	4.0	4	0	15	16	13	62	6.2	11.0
29...	2.5	6	0	20	20	15	84	5.6	17.0
MAR.									
30...	3.0	5	0	24	18	14	91	5.9	17.0
APR.									
27...	2.0	8	0	15	18	12	65	6.6	20.0
MAY									
25...	2.0	9	0	17	14	7	69	6.8	23.0
JUNE									
29...	3.0	10	0	19	19	11	84	6.4	--
SEP.									
28...	3.0	8	0	25	22	16	94	6.1	22.0

02479468 PUPPY CREEK AT COUNTY BRIDGE, ALA.

LOCATION.--Lat 31°01'06", long 88°20'50", in NW¼SE¼ sec. 26, T. 1 N., R. 4 W., Mobile County, at bridge on State Highway 217, 4.8 miles upstream from mouth, 8.3 miles southwest of Citronelle, Ala.

DRAINAGE AREA.--28.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
02...	5.0	4	0	46	28	25	159	5.8	21.5
30...	6.0	2	0	47	30	29	187	5.1	13.0
DEC.									
28...	7.0	3	0	33	20	18	121	5.3	17.5
FEB.									
01...	15	1	0	18	16	15	76	5.2	11.0
29...	7.0	4	0	22	16	13	89	5.9	18.0
MAR.									
30...	15	4	0	25	14	11	94	5.6	18.0
APR.									
27...	5.0	0	0	120	62	62	378	4.5	22.5
MAY									
25...	7.0	3	0	40	20	18	145	5.6	28.0
JUNE									
29...	8.0	2	0	28	20	19	112	5.3	--
SEP.									
28...	5.5	3	0	18	12	10	69	5.7	27.0

02479500 ESCATAWPA RIVER NEAR WILMER, ALA.

LOCATION.--Lat 30°51'44", long 88°25'04", in NW¼ sec. 19, T. 2 S., R. 4 W., Mobile County, at gaging station near midstream on downstream side of bridge on U.S. Highway 98 at Alabama-Mississippi State line, 0.2 mile upstream from Gulf, Mobile & Ohio Railroad bridge, 0.5 mile upstream from Rocky Creek, and 4 miles northwest of Wilmer.

DRAINAGE AREA.--506 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, 1969, and 1971.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 20...	146	6.3	60	30	1.9	.7	4.2	.9	2.8
AUG. 23...	88	8.4	330	10	1.1	.6	3.2	.5	2.4
SEP. 20...	57	7.6	140	20	1.5	.8	3.9	.6	1.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
JULY 20...	8.6	.1	.02	38	28	.05	8	5	.7
AUG. 23...	5.6	.0	.05	29	24	.04	5	2	.6
SEP. 20...	8.0	.0	.05	34	25	.05	7	6	.6

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 20...	146	--	--	40	--	20.5	--
JUNE 07...	166	--	--	40	--	28.0	--
JULY 20...	--	4	0	41	5.7	26.0	7.5
26...	342	--	--	40	--	26.0	--
AUG. 23...	--	4	0	31	5.9	25.0	7.8
29...	110	--	--	70	--	27.0	--
SEP. 20...	--	2	0	35	5.7	27.0	8.2

03572900 TOWN CREEK NEAR GERALDINE, ALA.

LOCATION.--Lat 34°22'42", long 85°59'25", in NW¼ sec. 34, T. 7 S., R. 5 E., DeKalb County, at gaging station at bridge on State Highway 75, 0.3 mile downstream from Reedy Creek, 0.9 mile upstream from Traylor Branch, 2 miles north northeast of Geraldine, 15 miles northeast of Albertville, and at mile 30.6.

DRAINAGE AREA.--141 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to February 1972 (discontinued).
Water temperatures: April 1968 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C July 20, 25; minimum, 4.0°C Jan. 17.

Period of record:
Water temperatures: Maximum, 32.0°C June 27-30, 1969; minimum, 2.0°C on several days in 1968, 1969, and 1970.

REMARKS.--Records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965-68.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO FEBRUARY 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 13...	--	1.9	20	4.6	1.1	2.6	2.7	12
DEC. 22...	980	4.3	20	4.4	1.7	2.3	1.5	6
JAN. 19...	434	3.9	20	3.8	1.2	1.7	1.2	6
FEB. 17...	670	3.5	20	3.8	1.3	1.7	1.5	6

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 13...	0	6.0	6.0	.16	<.01	<.01	.2	30	29
DEC. 22...	0	6.8	6.0	.36	.01	.05	1.7	32	29
JAN. 19...	0	6.5	5.5	.17	<.01	.05	2.0	42	26
FEB. 17...	0	7.0	5.5	.32	<.01	.05	1.7	44	28

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 13...	.04	16	6	.3	51	6.6	14.5	5
DEC. 22...	.04	18	15	.2	53	6.1	9.0	5
JAN. 19...	.06	17	14	.2	51	6.1	7.5	3
FEB. 17...	.06	18	15	.2	52	6.1	7.5	5

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT. 20...	14	--	18.5
JAN. 05...	2590	40	10.5
APR. 13...	244	50	16.0
MAY 16...	565	35	15.5
JULY 14...	32	50	23.0
AUG. 22...	5.6	--	23.0

03572900 TOWN CREEK NEAR GERALDINE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL- ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	22.0	19.5	18.0	8.0	6.5	11.0	10.0	6.5	6.0	11.5	10.5
2	24.5	21.0	19.5	18.5	6.5	5.5	10.5	10.0	8.0	6.5	12.0	11.5
3	24.0	21.5	19.5	15.0	6.0	5.0	10.5	9.5	8.0	6.5	11.5	9.5
4	24.0	21.0	15.0	11.5	6.5	6.0	11.0	9.5	6.5	5.0	9.5	8.5
5	23.5	22.0	13.0	10.0	7.0	6.5	11.0	9.0	5.5	4.5	10.5	9.5
6	23.0	21.0	14.0	10.5	10.0	7.0	9.0	7.0	6.5	5.5	9.5	8.0
7	21.0	18.5	13.5	9.5	11.5	10.0	7.0	6.5	7.0	6.0	9.5	8.5
8	19.5	16.5	9.5	8.0	11.5	11.0	8.0	6.5	6.5	5.5	10.5	9.5
9	19.5	18.5	9.0	8.0	11.5	10.5	9.5	8.0	6.5	5.0	10.0	8.5
10	18.5	16.0	10.0	8.5	13.5	11.5	11.5	9.5	6.5	5.5	9.5	8.0
11	16.5	13.5	9.5	6.5	13.0	11.5	12.0	11.5	7.0	6.0	10.5	8.5
12	14.5	13.5	10.0	7.0	12.0	11.0	11.5	10.0	8.0	7.0	11.5	9.5
13	16.5	14.5	11.0	8.0	13.0	11.5	14.0	10.5	7.0	6.5	13.0	10.5
14	18.0	14.5	11.5	9.5	13.5	12.0	13.5	10.0	8.0	6.0	13.5	11.5
15	18.5	16.5	12.0	9.5	15.0	13.5	10.0	6.0	9.0	7.0	13.0	11.0
16	19.5	17.0	12.0	9.5	15.5	15.0	6.0	4.5	8.5	8.0	14.0	13.0
17	19.0	17.0	12.0	9.5	15.0	12.0	5.0	4.0	8.5	8.0	13.5	11.5
18	19.0	17.0	13.0	10.5	12.0	9.0	6.0	4.5	8.5	8.0	11.5	10.5
19	19.0	16.0	13.5	11.5	9.5	8.5	9.0	6.0	8.0	5.5	13.0	10.5
20	18.0	16.5	11.5	10.0	12.0	9.5	10.5	9.0	6.5	5.0	13.5	11.0
21	18.5	17.0	10.5	8.0	13.5	12.0	11.0	10.5	7.0	5.5	13.5	12.0
22	19.0	18.0	8.0	6.0	13.0	11.0	11.5	11.0	9.0	7.0	13.5	13.0
23	19.0	18.5	6.5	5.5	11.0	10.0	11.5	11.0	8.5	8.0	13.5	11.5
24	18.5	17.0	6.0	5.5	10.5	9.5	13.0	11.5	10.0	8.0	12.0	10.5
25	18.5	16.5	8.0	5.5	10.5	9.5	13.0	10.0	11.5	9.5	10.5	9.5
26	17.0	15.5	7.0	5.0	11.0	10.0	10.0	8.5	11.5	10.5	10.5	8.5
27	16.5	14.0	8.5	6.0	12.0	10.5	9.5	8.0	10.5	9.5	11.0	10.5
28	17.0	14.5	8.0	5.5	12.0	11.5	10.5	9.5	10.5	8.5	14.0	11.0
29	18.5	15.5	9.5	8.0	12.0	11.5	10.0	9.5	11.0	9.5	15.0	13.5
30	18.5	16.0	8.5	7.0	13.5	12.0	9.5	8.0	---	---	14.5	13.0
31	19.0	17.0	---	---	13.5	11.0	8.0	6.5	---	---	13.5	11.5
MONTH	25.0	13.5	19.5	5.0	15.5	5.0	14.0	4.0	11.5	4.5	15.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	18.5	15.5	21.0	18.5	25.0	21.5	23.5	21.5	24.5	21.0
2	12.0	10.0	18.5	16.5	20.5	16.0	25.0	23.0	24.0	21.5	24.5	20.0
3	13.0	10.5	18.5	16.5	21.5	17.0	26.0	22.0	23.5	21.5	25.5	21.0
4	13.0	11.5	18.0	15.5	22.0	18.0	25.5	23.5	25.0	21.5	24.5	21.0
5	12.0	10.0	18.5	14.5	23.5	19.0	24.5	23.0	24.5	23.0	23.0	20.5
6	14.0	11.0	19.0	15.0	24.5	20.0	23.5	20.0	25.0	22.0	25.0	19.5
7	15.0	14.0	18.0	16.0	25.0	21.0	23.5	19.5	25.5	23.0	25.5	18.0
8	15.0	12.0	19.0	16.5	24.5	20.5	23.0	20.0	24.0	23.0	26.0	19.5
9	13.0	11.0	18.5	17.0	24.0	21.0	24.0	20.5	26.0	23.5	26.0	21.0
10	13.5	11.0	19.0	16.0	24.5	21.0	24.0	20.0	24.5	23.5	25.0	20.5
11	13.5	12.0	19.0	15.5	24.0	20.0	24.5	20.5	25.5	22.0	25.5	19.5
12	15.0	13.0	19.0	15.5	23.0	20.0	25.0	21.5	24.5	23.0	26.5	17.0
13	17.0	15.0	18.0	15.5	24.5	20.0	24.5	22.0	25.5	22.0	25.5	17.0
14	19.0	16.0	16.0	15.0	24.5	21.0	24.5	21.5	25.5	22.0	26.5	18.5
15	20.0	18.0	17.0	15.5	25.0	21.0	24.5	22.0	25.5	22.0	25.5	19.5
16	21.0	18.5	17.0	15.0	24.5	23.0	24.5	22.0	25.5	22.0	25.5	19.0
17	20.0	18.0	17.0	15.5	24.5	22.0	25.5	23.0	25.5	23.5	24.5	21.0
18	19.5	16.0	18.0	15.5	25.5	21.5	26.0	23.0	25.5	23.0	22.0	21.0
19	20.0	16.5	18.0	16.0	25.0	22.0	26.0	23.5	26.0	23.0	23.5	21.0
20	20.5	17.0	18.0	16.0	22.0	21.0	27.0	23.5	26.0	23.5	24.0	21.0
21	20.0	18.5	18.5	16.0	24.5	20.5	26.0	23.0	26.0	24.0	23.5	21.0
22	19.5	16.0	19.0	16.0	23.5	20.5	26.5	24.0	25.5	22.0	23.0	20.5
23	16.5	15.0	19.5	17.0	23.5	19.0	26.0	24.0	26.0	22.0	23.0	21.0
24	16.5	15.0	20.0	17.0	24.0	18.5	26.0	23.5	26.0	23.0	23.5	21.0
25	16.0	14.0	20.0	17.0	23.5	20.5	27.0	24.0	25.5	22.0	23.0	21.0
26	15.0	13.0	21.0	18.0	23.0	21.0	26.0	24.5	26.5	23.0	22.0	21.5
27	15.0	13.0	21.0	18.5	22.0	21.0	26.0	24.5	25.5	23.5	21.5	21.0
28	15.0	13.5	21.0	18.5	24.0	20.5	25.5	23.5	24.0	21.0	21.5	20.5
29	16.0	14.0	20.5	19.0	25.5	21.5	25.0	23.5	24.0	20.5	22.0	20.5
30	17.0	15.5	20.5	19.0	26.0	21.5	23.5	22.0	24.0	21.0	21.5	18.5
31	---	---	21.0	18.5	---	---	23.5	21.5	24.5	21.0	---	---
MONTH	21.0	10.0	21.0	14.5	26.0	16.0	27.0	19.5	26.5	20.5	26.5	17.0

03575000 FLINT RIVER NEAR CHASE, ALA.

LOCATION.--Lat 34°49'08", long 86°28'32", in SW¼ sec. 36, T. 2 S., R. 1 E., Madison County, on left bank 250 ft downstream from Nashville, Chattanooga and St. Louis Railway bridge, 0.2 mile downstream from highway bridge, 0.3 mile downstream from Brier Fork, 5 miles northeast of Chase, and at mile 35.9.

DRAINAGE AREA.--342 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1972.
Water temperatures: May 1964 to September 1967, November 1970 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 27.0°C July 21, 27; minimum, 1.5°C Feb. 16.

Period of record:
Water temperatures: Maximum, 28.5°C Aug. 4, 1965; minimum, 1.5°C Feb. 3, 1965, Feb. 16, 1972.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 13...	92	7.4	60	10	20	4.3	1.0	.6	72	0	5.2	2.0
FEB. 02...	525	4.0	50	60	18	2.8	1.1	.8	60	0	4.0	2.4
MAR. 16...	680	4.9	50	4	19	2.8	1.1	.8	--	--	7.2	3.2
APR. 13...	385	1.4	40	23	21	3.3	1.2	.5	--	--	3.8	2.4
MAY 24...	240	4.1	60	24	20	3.7	1.1	.7	--	--	3.6	2.0
JUNE 23...	145	7.2	70	28	20	3.7	1.1	.8	--	--	3.4	2.4
JULY 26...	136	7.4	300	21	19	4.8	1.1	.5	--	--	3.2	2.2
AUG. 10...	115	7.2	120	20	20	4.2	1.0	.8	--	--	4.0	2.0
SEP. 28...	158	5.5	120	20	15	3.2	.8	2.4	--	--	5.2	2.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT. 13...	.0	.02	89	76	.12	68	9	.1	130	7.2	17.0
FEB. 02...	.0	.80	69	66	.09	57	8	.1	--	7.4	--
MAR. 16...	.1	.30	80	72	.11	59	7	.1	--	--	--
APR. 13...	.1	.02	--	68	.09	66	9	.1	--	--	--
MAY 24...	.1	.70	68	75	.09	65	8	.1	--	--	--
JUNE 23...	.0	.45	81	76	.11	65	9	.1	--	--	--
JULY 26...	.1	.80	68	75	.09	67	11	.1	--	--	--
AUG. 10...	.1	.60	77	76	.10	68	11	.1	--	--	--
SEP. 28...	.1	.25	63	61	.09	51	9	.0	--	--	--

03575000 FLINT RIVER NEAR CHASE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
04...	89	--	--	135	8.1	22.0	--
NOV.							
03...	115	--	--	120	--	17.0	--
DEC.							
15...	551	--	--	115	--	15.5	--
FEB.							
02...	--	--	--	120	--	7.0	12.2
MAR.							
16...	--	64	0	126	7.2	14.0	12.0
20...	517	--	--	120	--	15.5	--
APR.							
13...	--	68	0	144	7.0	17.0	9.0
MAY							
24...	--	70	0	142	8.0	22.0	9.4
JUNE							
23...	--	68	0	128	7.1	19.0	9.6
30...	133	--	--	115	--	--	--
JULY							
26...	--	68	0	132	7.6	20.5	8.4
AUG.							
02...	158	--	--	118	--	--	--
10...	--	69	0	129	7.2	23.0	8.2
SEP.							
05...	90	--	--	135	--	21.0	--
28...	--	59	0	95	7.2	22.0	7.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL- ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	21.0	20.0	19.0	10.0	9.5	10.5	10.0	7.0	6.0	14.0	13.5
2	23.5	21.0	20.0	19.0	9.5	8.5	10.5	9.5	8.5	7.0	14.0	11.5
3	23.5	21.0	20.0	18.0	9.0	8.5	10.0	9.0	8.5	6.5	11.5	9.5
4	23.5	21.0	18.0	14.5	9.5	9.0	11.5	10.0	6.5	5.5	9.0	8.5
5	23.5	21.5	15.0	13.0	9.5	9.0	11.5	7.0	6.5	4.5	10.5	9.0
6	22.0	20.5	15.0	13.0	12.0	9.5	7.0	6.0	7.0	6.0	10.0	8.5
7	22.0	19.0	15.0	12.0	13.0	12.0	7.0	6.0	7.0	6.0	10.0	9.0
8	20.0	17.0	12.0	9.5	13.0	12.0	8.5	6.5	7.0	5.5	11.0	9.5
9	19.5	19.0	11.5	10.5	12.0	11.5	10.5	8.5	8.0	6.0	10.5	9.0
10	19.0	16.0	12.0	10.5	14.0	12.0	13.5	10.5	8.5	6.5	10.0	8.5
11	18.0	15.0	12.0	10.0	14.0	13.0	14.0	13.5	9.5	8.0	11.0	9.0
12	18.0	15.0	13.0	10.5	13.0	13.0	13.5	11.5	9.0	9.0	12.0	10.0
13	18.0	16.0	14.0	11.5	13.5	13.0	14.5	12.0	9.0	7.0	14.0	11.0
14	19.0	16.0	14.5	13.0	15.0	13.5	13.5	9.5	9.0	6.5	14.5	12.0
15	19.0	18.0	15.5	13.5	15.5	15.0	9.5	9.0	11.0	9.0	14.0	11.5
16	20.5	18.0	15.0	13.5	15.5	15.0	5.0	1.5	10.0	9.0	15.0	13.5
17	21.0	18.5	15.0	13.5	15.0	11.5	5.0	3.5	9.5	9.0	14.5	12.0
18	21.0	19.0	15.5	14.0	11.5	9.0	8.0	5.0	10.5	8.5	12.0	11.0
19	20.0	18.0	15.5	14.5	10.0	9.0	10.0	8.0	8.5	6.5	14.0	11.0
20	19.5	18.0	15.0	13.0	13.0	10.0	12.0	10.0	8.5	6.0	14.5	11.5
21	19.5	18.5	14.0	11.5	13.5	11.5	13.5	12.0	10.0	9.0	14.5	13.0
22	20.0	18.5	11.5	9.5	12.0	11.0	14.0	13.0	11.0	9.5	14.5	13.5
23	20.0	19.0	9.5	9.0	11.0	10.0	14.0	13.5	10.5	9.5	14.5	12.0
24	20.0	19.0	9.0	9.0	11.0	10.0	15.5	13.5	12.0	10.5	13.5	11.0
25	20.0	19.0	9.5	8.5	11.5	10.5	15.0	11.0	14.0	11.5	11.0	9.5
26	19.5	18.0	9.0	8.0	13.0	11.0	11.0	9.5	14.0	11.5	11.0	8.5
27	19.5	17.0	9.5	9.0	14.0	13.0	11.0	9.0	12.0	10.0	13.0	11.0
28	19.5	17.0	9.5	8.5	13.5	11.5	11.0	9.5	13.0	10.0	15.5	13.0
29	19.5	17.0	10.5	9.5	13.0	11.5	9.5	8.5	14.0	11.5	16.0	14.5
30	19.5	18.0	10.5	9.5	14.0	12.0	8.5	6.5	---	---	18.5	17.0
31	20.0	18.5	---	---	12.0	10.5	7.0	6.0	---	---	18.0	17.0
MONTH	23.5	15.0	20.0	8.0	15.5	8.5	15.5	1.5	14.0	4.5	18.0	8.5

03575000 FLINT RIVER NEAR CHASE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.5	20.0	17.0	21.0	17.0	24.5	21.0	26.0	21.5	26.5	21.5
2	14.0	10.5	19.5	18.5	21.0	16.5	24.5	22.0	25.0	22.0	26.5	21.5
3	15.5	12.0	19.5	18.0	22.0	18.0	25.0	22.0	26.0	23.0	26.5	22.0
4	15.0	13.5	19.5	17.0	23.5	19.0	23.0	21.5	25.5	23.5	23.5	22.0
5	14.5	11.5	20.0	16.0	24.0	19.5	22.0	20.5	26.0	23.5	23.5	21.0
6	16.5	13.5	20.0	18.5	24.5	21.0	23.0	19.5	25.5	23.0	23.5	20.0
7	17.0	14.0	19.0	18.0	25.5	21.5	23.0	20.0	26.0	23.0	26.0	20.5
8	16.5	12.0	19.0	17.0	24.5	20.5	23.0	19.5	26.0	23.0	26.0	21.0
9	14.5	10.5	18.5	17.0	24.5	21.0	24.5	20.5	26.0	23.5	26.5	22.0
10	15.5	13.0	18.5	16.0	23.5	20.5	24.5	21.0	26.5	23.5	26.5	21.5
11	15.5	14.5	18.0	16.0	23.5	19.5	24.5	21.5	26.5	22.0	26.5	21.5
12	17.0	15.5	19.0	16.0	22.0	19.5	25.0	21.5	26.0	22.0	26.5	21.0
13	19.0	17.0	18.5	17.0	23.5	20.0	26.0	22.0	26.5	21.5	26.0	21.0
14	20.5	18.0	18.5	16.5	24.0	21.0	25.5	23.0	25.5	22.0	26.0	21.5
15	22.0	19.5	20.0	18.0	24.5	21.5	25.0	23.0	25.5	22.0	26.0	22.0
16	21.5	19.5	20.0	17.0	23.0	21.5	24.5	23.0	25.5	23.0	23.5	21.5
17	20.0	18.5	20.5	18.5	23.0	21.0	25.5	21.5	25.5	23.5	21.5	21.0
18	20.0	17.0	21.0	18.5	25.0	21.0	26.0	23.0	26.0	23.5	21.5	21.0
19	21.0	18.5	20.5	18.5	23.5	21.5	25.5	23.5	26.0	23.5	26.0	21.0
20	21.0	19.0	20.5	18.0	22.0	21.0	26.5	23.5	26.5	24.0	26.5	21.5
21	19.5	18.5	21.5	18.0	24.5	20.5	27.0	23.5	25.0	23.5	26.0	21.5
22	18.5	17.0	22.0	18.5	23.5	20.0	25.5	24.0	25.5	23.0	23.5	22.0
23	18.5	16.5	23.0	19.0	23.0	19.0	26.0	23.5	25.5	23.0	23.5	21.5
24	18.5	16.5	23.0	19.5	23.5	19.0	26.5	23.5	25.5	23.5	26.0	21.5
25	16.5	14.5	23.5	19.5	22.0	20.0	26.5	24.0	25.5	23.5	26.0	21.5
26	14.5	13.5	23.5	19.5	23.0	21.0	26.5	24.0	26.5	23.5	23.5	22.0
27	17.0	14.5	23.5	19.5	22.0	21.0	27.0	24.0	25.5	23.5	22.0	21.5
28	16.0	15.0	22.0	19.5	24.0	21.0	26.0	24.0	26.5	21.5	22.0	21.5
29	17.0	15.5	23.0	19.5	24.5	21.0	26.0	22.0	25.0	21.0	22.0	21.0
30	19.5	16.0	21.5	20.0	25.0	21.5	23.0	21.5	26.5	21.0	21.0	18.0
31	---	---	21.0	19.0	---	---	23.5	21.5	26.5	21.0	---	---
MONTH	22.0	10.5	23.5	16.0	25.5	16.5	27.0	19.5	26.5	21.0	26.5	18.0

03575060 FLINT RIVER NEAR MOUNT CARMEL, ALA.

LOCATION.--Lat 34°47'13", long 86°28'51", in NE¼NE¼ sec. 12, T. 3 S., R. 1 E., Madison County, 1600 ft downstream from Chase Creek, 0.7 mile northeast of Acuff Spring, 1.3 miles southeast of Mt. Carmel, Ala., and at mile 33.0.

DRAINAGE AREA.--342 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 02...	550	4.5	60	60	18	3.0	1.1	.8	62	0	4.0
MAR. 16...	695	5.2	130	8	19	2.8	1.2	.8	--	--	5.6
APR. 13...	480	3.1	60	22	22	3.6	1.2	.5	--	--	5.8
MAY 24...	346	4.3	80	35	23	3.7	1.1	.8	--	--	4.4
JUNE 23...	165	7.0	10	43	29	3.6	1.2	.6	--	--	3.2
JULY 26...	116	7.9	280	30	23	4.6	1.3	.5	--	--	3.2
AUG. 10...	136	7.3	250	40	19	3.9	1.2	.8	--	--	3.6
SEP. 28...	209	6.2	140	26	16	3.4	1.0	.1	--	--	5.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB. 02...	2.0	.0	.90	64	65	.09	58	7	.1	7.2
MAR. 16...	2.8	.0	.60	70	77	.10	59	7	.1	--
APR. 13...	2.6	.1	.60	71	75	.10	60	12	.1	--
MAY 24...	2.4	.1	.43	82	78	.11	73	12	.1	--
JUNE 23...	2.6	.0	.72	84	76	.11	85	8	.1	--
JULY 26...	2.2	.1	.80	77	78	.10	68	9	.1	--
AUG. 10...	1.8	.0	.68	82	76	.11	64	5	.1	--
SEP. 28...	2.0	.1	.50	60	66	.08	54	9	.1	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB. 02...	--	--	122	--	8.5	10.2
MAR. 16...	65	0	123	6.7	14.0	13.2
APR. 13...	68	0	150	7.2	17.0	--
MAY 24...	76	0	137	7.7	20.0	8.0
JUNE 23...	70	0	138	7.4	18.0	8.2
JULY 26...	72	0	147	7.0	23.5	8.2
AUG. 10...	72	0	124	7.0	21.5	7.1
SEP. 28...	95	0	108	7.0	21.0	7.0

03575830 ALDRIDGE CREEK NEAR LILY FLAGG, ALA.

LOCATION.--Lat 34°37'46", long 86°32'23", in SW¼NE¼NW¼ sec. 6, T. 5 S., R. 1 E., Madison County, at bridge on Green Mountain Road, and 2.1 miles southeast of Lily Flagg, Ala.

DRAINAGE AREA.--13.9 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB.											
02...	36	3.5	10	40	62	5.6	1.9	.8	196	0	11
MAR.											
16...	40	5.0	0	6	65	5.5	1.8	.8	--	--	15
APR.											
13...	18	4.1	6	36	73	6.4	1.9	.5	--	--	14
MAY											
24...	10	3.5	60	67	68	6.8	2.3	1.1	--	--	12
JUNE											
22...	9.0	5.4	0	39	63	5.6	2.8	.8	--	--	12
JULY											
27...	20	6.9	10	85	62	5.7	3.1	.9	--	--	12
AUG.											
09...	33	6.6	0	69	69	6.2	2.9	1.4	--	--	12
SEP.											
27...	67	3.5	290	20	20	1.7	1.6	4.0	--	--	10

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB.										
02...	6.6	.0	.90	196	192	.26	180	20	.1	7.7
MAR.										
16...	5.8	.2	.50	--	201	.27	180	13	.1	--
APR.										
13...	6.6	.3	.90	--	221	.30	220	36	.1	--
MAY										
24...	7.6	.1	.30	217	210	.30	200	31	.1	--
JUNE										
22...	9.6	.1	.60	210	196	.29	180	26	.1	--
JULY										
27...	8.2	.2	.90	206	201	.28	180	16	.1	--
AUG.										
09...	7.0	.1	.80	223	219	.30	200	17	.1	--
SEP.										
27...	3.6	.2	.09	78	78	.11	57	10	.1	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
14...	1.3	--	--	280	--	25.0	--
JAN.							
04...	313	--	--	227	--	13.0	--
FEB.							
02...	--	--	--	370	--	10.0	13.7
MAR.							
16...	--	202	0	360	7.9	17.0	15.6
23...	73	--	--	--	--	16.0	--
APR.							
13...	--	220	0	400	8.1	20.0	13.0
MAY							
24...	--	218	0	385	8.1	21.5	12.6
JUNE							
22...	--	190	0	352	8.3	27.0	13.2
JULY							
27...	--	200	0	380	7.8	30.0	12.7
AUG.							
09...	--	226	0	405	8.0	29.0	11.6
SEP.							
27...	--	58	0	132	7.6	24.0	7.6

03575950 HUNTSVILLE SPRING BRANCH AT JOHNSON ROAD NEAR HUNTSVILLE, ALA.

LOCATION.--Lat 34°41'24", long 86°35'47", in NW¼NE¼SE¼ sec. 14, T. 4 S., R. 1 W., Madison County at bridge on Johnson Road, 2.3 miles southeast of West Station Post Office in Huntsville, Ala., and at mile 12.2.

DRAINAGE AREA.--41.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: May to September 1972.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
FEB.												
22...	140	--	5[illegible]	--	--	--	--	--	132	0	--	4.0
MAY												
17...	44	--	--	--	--	--	--	--	170	0	--	4.0
25...	70	2.7	10	36	39	3.5	1.8	2.8	--	--	12	.4
JUNE												
22...	70	4.2	30	34	45	5.0	2.6	8.0	--	--	5.6	5.2
JULY												
27...	12	4.1	50	42	37	5.4	3.6	8.0	--	--	6.4	5.2
AUG.												
09...	19	5.4	180	19	46	3.6	4.0	1.4	--	--	10	5.8
SEP.												
28...	15	6.0	10	10	45	4.1	3.3	2.9	--	--	11	5.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
FEB.											
22...	--	--	--	--	--	120	12	--	245	7.9	14.0
MAY											
17...	--	--	--	--	--	130	0	--	290	8.1	20.0
25...	.2	.6	151	129	.21	110	4	.1	--	--	--
JUNE											
22...	.1	.7	165	147	.22	130	6	.1	--	--	--
JULY											
27...	.1	.3	129	129	.18	110	3	.1	--	--	--
AUG.											
09...	.1	.7	154	152	.21	130	11	.2	--	--	--
SEP.											
28...	.1	.6	--	146	.20	130	20	.1	--	--	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MAY						
25...	128	0	243	7.9	18.0	8.5
JUNE						
22...	148	8	260	8.5	21.0	12.4
JULY						
27...	128	0	202	7.3	25.5	6.8
AUG.						
09...	146	0	270	7.7	26.5	11.5
SEP.						
28...	134	0	245	8.0	25.0	9.7

03575955 HUNTSVILLE SPRING BRANCH UPSTREAM FROM SEWAGE TREATMENT PLANT NEAR HUNTSVILLE, ALA.

LOCATION.--Lat 34°40'40", long 86°36'03", in SW¼SW¼NE¼ sec. 23, T. 4 S., R. 1 W., Madison County, 2,000 ft upstream from sewage plant effluent, 1.5 miles west of Memorial Parkway in Huntsville, Ala., and at mile 11.2.

DRAINAGE AREA.--45.7 sq mi.

PERIOD OF RECORD.--Chemical analyses: February to September 1972.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB.												
22...	145	--	160	--	--	--	--	--	--	63	0	--
MAY												
17...	45	--	--	--	--	--	--	--	--	170	0	--
25...	75	2.1	--	60	38	40	3.6	2.3	3.0	--	--	11
JUNE												
22...	72	4.1	--	80	32	41	5.0	2.8	.9	142	0	4.0
JULY												
27...	108	3.1	--	10	69	29	3.5	3.7	1.5	--	--	7.2
AUG.												
09...	28	5.4	--	30	30	41	5.2	5.1	1.6	--	--	9.8
SEP.												
29...	32	5.0	--	--	--	37	2.8	2.4	3.4	--	--	9.2

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
FEB.												
22...	4.8	--	--	--	--	--	144	93	--	298	5.1	14.0
MAY												
17...	5.2	--	.70	--	--	--	150	11	--	300	7.9	21.0
25...	7.8	.2	.20	151	132	.21	110	8	.1	--	--	--
JUNE												
22...	5.0	.1	.40	149	135	.20	120	4	.1	--	--	--
JULY												
27...	5.0	.2	.70	103	103	.14	87	9	.2	--	--	--
AUG.												
09...	5.4	.1	.80	146	142	.20	120	12	.2	--	--	--
SEP.												
29...	4.8	.1	.40	122	119	.17	100	13	.1	--	--	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MAY						
25...	124	0	236	7.5	21.0	8.8
JUNE						
22...	--	--	260	8.5	23.5	12.0
JULY						
27...	96	0	156	6.9	26.0	5.9
AUG.						
09...	132	0	243	7.8	29.0	--
SEP.						
29...	107	0	190	7.7	23.0	7.5

03575960 HUNTSVILLE SPRING BRANCH AT MARTIN ROAD NEAR HUNTSVILLE, ALA.

(Formerly published as station 03576108)

LOCATION.--Lat 34°39'33", long 86°36'16", in SW¼NE¼SW¼ sec. 26, T. 4 S., R. 1 W., Madison County, at bridge on Martin Road, 2.2 miles northwest of Farley Station Post Office in Huntsville, Ala., and at mile 9.8.

DRAINAGE AREA.--46.9 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER, 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 02...	96	6.1	60	90	42	4.6	16	3.1	126	0	15
MAR. 16...	118	5.3	50	48	45	4.5	12	2.1	132	0	15
APR. 13...	84	4.0	0	32	49	5.0	13	2.1	--	--	15
MAY 25...	95	4.2	50	66	44	3.9	10	3.4	--	--	16
JUNE 22...	101	8.5	110	60	38	5.0	33	5.8	--	--	28
JULY 27...	83	5.9	310	54	32	4.1	22	4.0	--	--	17
AUG. 09...	50	8.6	20	50	41	5.3	27	4.3	--	--	25
SEP. 28...	46	8.0	50	50	39	4.6	28	5.5	--	--	27

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB. 02...	17	--	8.1	190	202	.26	130	27	.6	6.9
MAR. 16...	12	.4	2.1	168	170	.23	130	22	.5	8.0
APR. 13...	12	.3	3.4	196	191	.27	143	17	.5	--
MAY 25...	10	.3	.90	160	159	.22	130	20	.4	--
JUNE 22...	31	.6	6.3	266	234	.36	120	27	1.3	--
JULY 27...	20	.4	2.5	175	172	.24	97	4	1.0	--
AUG. 09...	23	.4	2.2	230	219	.31	120	0	1.1	--
SEP. 28...	21	.5	1.8	220	215	.30	120	0	1.1	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB. 02...	--	--	341	--	12.0	12.6
MAR. 16...	--	--	324	--	18.0	14.3
APR. 13...	154	0	349	8.1	21.0	--
MAY 25...	134	0	310	7.7	24.0	8.3
JUNE 22...	184	0	470	8.1	27.5	10.8
JULY 27...	114	0	318	7.1	27.5	6.1
AUG. 09...	153	0	410	7.4	29.5	9.0
SEP. 28...	148	0	380	7.2	26.0	5.5

03577150 TENNESSEE RIVER AT DECATUR, ALA.

LOCATION.--Lat 34°36'47", long 86°58'26", in NE¼ sec. 17, T. 5 S., R. 4 W., Morgan County, temperature recorder at gaging station at Keller Memorial Bridge on U.S. Highway 31 at Decatur, 0.5 mile upstream from Southern Railway bridge, 3.8 miles downstream from Flint Creek, 30 miles upstream from Wheeler Dam, and at mile 305.

DRAINAGE AREA.--26,900 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1970 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 30.0°C Aug. 20; minimum, 6.0°C Feb. 8.

Period of record:
Water temperatures: Maximum, 30.0°C July 11-13, 1971, Aug. 20, 1972; minimum, 4.0°C Feb. 14, 16, 1971.

REMARKS.--Records furnished by Tennessee Valley Authority.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	25.5	22.0	21.5	11.5	11.5	11.5	11.5	9.0	8.5	9.5	9.0
2	26.5	26.0	22.0	22.0	11.5	10.5	11.5	11.0	9.0	8.5	9.5	9.0
3	26.5	26.0	22.0	21.5	10.5	10.5	11.0	11.0	9.0	7.0	9.5	9.0
4	26.5	26.0	21.5	21.0	10.5	10.0	11.0	10.5	7.0	7.0	9.5	9.0
5	26.5	26.0	21.0	20.5	10.0	9.5	10.5	10.0	7.0	7.0	9.5	9.0
6	26.5	26.0	20.5	20.0	9.5	9.5	10.0	10.0	7.0	7.0	9.5	9.0
7	26.0	25.5	20.0	19.0	10.0	9.5	10.0	9.5	7.0	6.5	10.0	9.5
8	25.5	25.5	19.0	18.0	10.0	10.0	9.5	9.0	7.0	6.0	10.0	9.5
9	25.5	24.5	18.5	18.0	10.5	10.0	9.0	9.0	7.0	6.5	10.0	9.0
10	25.0	24.0	18.0	16.5	11.0	10.5	9.0	9.0	7.0	6.5	10.0	9.5
11	24.0	23.5	16.5	16.0	11.5	11.0	9.5	9.0	7.0	6.5	10.5	10.0
12	24.0	23.0	16.0	15.5	11.5	11.5	10.0	9.5	7.0	7.0	11.0	10.0
13	23.5	23.0	16.0	15.5	11.5	11.5	10.5	10.0	7.0	6.5	11.5	10.5
14	23.0	22.0	16.0	16.0	12.0	11.5	10.5	10.0	7.0	6.5	11.5	10.5
15	23.0	22.0	16.0	16.0	13.0	12.0	10.0	9.5	8.0	7.0	12.0	11.0
16	23.0	23.0	16.0	16.0	13.5	13.0	9.5	8.5	8.0	7.0	13.0	12.0
17	23.0	23.0	16.5	16.0	13.0	13.0	8.5	8.0	8.0	7.0	13.0	12.0
18	23.0	23.0	16.5	16.0	13.0	12.0	8.0	7.0	8.0	7.0	13.0	13.0
19	23.0	23.0	16.5	16.0	12.0	12.0	8.5	8.0	8.0	7.0	13.5	12.0
20	23.0	22.0	16.0	15.5	12.0	12.0	8.5	8.5	8.0	6.5	14.0	13.0
21	22.0	22.0	16.0	15.0	12.0	11.5	8.5	8.5	8.0	7.0	14.0	13.5
22	22.0	22.0	15.0	14.5	11.5	11.5	8.5	8.5	7.0	7.0	14.0	13.5
23	22.0	22.0	15.0	14.0	11.5	11.5	9.0	8.5	8.0	7.0	14.0	14.0
24	22.0	22.0	14.0	13.5	11.5	11.5	9.5	9.0	8.5	8.0	14.0	13.5
25	22.0	22.0	13.5	13.0	11.5	11.0	9.5	9.0	9.0	8.0	13.5	13.0
26	22.0	22.0	13.0	12.0	11.5	11.0	10.0	9.0	9.0	8.5	13.5	13.0
27	22.0	21.5	12.0	11.5	11.5	11.5	10.0	9.5	9.5	8.5	13.5	13.0
28	22.0	21.5	12.0	11.5	11.5	11.0	10.0	10.0	9.5	9.0	13.5	13.5
29	22.0	22.0	12.0	11.5	11.5	11.0	10.0	9.5	9.5	9.0	13.5	13.0
30	22.0	22.0	12.0	11.5	12.0	11.5	9.5	9.0	---	---	14.0	13.5
31	22.0	21.5	---	---	11.5	11.5	9.5	9.0	---	---	14.0	13.5
MONTH	26.5	21.5	22.0	11.5	13.5	9.5	11.5	7.0	9.5	6.0	14.0	9.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	20.0	19.5	24.0	23.5	25.5	25.5	28.0	28.0	28.5	28.5
2	14.0	13.5	20.0	20.0	24.0	23.5	25.5	25.0	28.0	27.0	28.5	28.5
3	14.0	13.5	20.0	19.5	24.0	23.5	26.0	25.0	28.5	28.0	28.5	28.0
4	14.0	13.5	20.0	19.5	24.0	24.0	26.0	26.0	28.5	28.0	28.5	28.0
5	14.5	13.5	20.0	19.5	24.5	24.5	26.0	25.5	28.5	28.5	28.5	28.0
6	14.5	14.0	20.0	19.5	25.0	24.5	26.0	25.5	29.0	28.0	28.0	27.0
7	14.5	14.5	20.0	20.0	25.0	25.0	26.0	25.5	28.5	28.5	28.0	27.0
8	14.5	14.0	20.5	20.0	25.0	25.0	26.0	26.0	28.5	28.0	28.0	27.0
9	14.5	14.0	20.5	20.0	25.5	25.0	26.5	26.0	29.0	28.5	28.0	27.0
10	14.5	14.0	20.5	20.0	25.5	25.5	26.5	26.5	29.0	28.5	28.0	27.0
11	14.5	14.5	20.5	20.0	25.5	25.5	27.0	26.5	28.5	28.5	27.0	26.5
12	15.0	14.5	20.5	20.0	25.5	25.0	27.0	26.5	29.0	28.5	27.0	27.0
13	16.0	15.0	20.5	20.0	25.5	25.0	27.0	27.0	28.5	28.5	27.0	26.5
14	16.5	15.5	20.5	20.0	25.5	25.0	28.0	27.0	29.0	28.5	27.0	27.0
15	17.0	16.0	20.5	20.0	26.0	25.5	27.0	27.0	29.0	28.5	27.0	27.0
16	18.0	17.0	20.5	20.5	26.0	25.5	27.0	26.5	29.0	28.5	27.0	26.5
17	18.0	17.0	21.0	20.5	25.5	25.5	28.0	26.5	29.0	28.5	27.0	26.5
18	18.5	18.0	21.5	21.0	26.0	25.5	28.0	27.0	29.5	29.0	26.5	26.5
19	18.5	18.5	21.5	21.0	26.0	25.5	28.0	27.0	29.5	29.0	27.0	26.5
20	19.0	18.5	21.5	21.5	25.5	25.5	28.5	28.0	30.0	29.0	27.0	26.5
21	19.5	19.0	21.5	21.5	25.5	25.5	29.0	28.0	29.5	29.0	27.0	26.5
22	20.0	19.5	22.0	21.5	25.5	25.5	29.0	28.5	29.5	28.5	27.0	26.5
23	20.0	19.5	23.0	22.0	25.5	25.0	29.0	28.5	29.5	29.0	27.0	26.5
24	20.0	19.5	23.5	23.0	25.0	25.0	29.0	28.5	29.0	29.0	27.0	26.5
25	20.0	19.5	23.5	23.0	25.0	25.0	29.0	28.5	29.0	29.0	27.0	26.5
26	20.0	19.5	24.0	23.5	25.5	25.0	29.5	28.5	29.5	29.0	26.5	26.5
27	20.0	19.5	24.0	23.5	25.5	25.0	29.5	29.0	29.5	29.0	27.0	26.5
28	20.0	20.0	24.0	24.0	25.0	25.0	29.5	29.0	29.5	29.0	26.5	26.5
29	20.0	19.5	24.0	24.0	25.5	25.0	29.0	28.5	29.0	28.5	26.5	26.0
30	20.0	19.5	24.0	24.0	25.5	25.5	29.0	28.5	29.0	28.5	26.0	25.5
31	---	---	24.0	23.5	---	---	28.5	28.0	29.0	28.5	---	---
MONTH	20.0	13.5	24.0	19.5	26.0	23.5	29.5	25.0	30.0	27.0	28.5	25.5

03589500 TENNESSEE RIVER AT FLORENCE, ALA.

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ sec. 14, T. 3 S., R. 11 W., Lauderdale County, at gaging station on right bank of old lock and dam 1 canal at lower end of Patton Island, 137 ft upstream from Southern Railway bridge, 700 ft upstream from O'Neal Bridge on U.S. Highway 72, 1 mile south of Florence, 1.7 miles upstream from Cypress Creek, 2.7 miles downstream from Wilson Dam, and at mile 256.7.

DRAINAGE AREA.--30,810 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1972.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965 and 1968.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
FEB. 01...	82000	4.2	40	60	20	4.0	4.5	1.5	62	0	13
MAR. 15...	57500	4.8	40	20	23	4.5	4.2	1.4	--	--	14
APR. 12...	24900	3.3	30	8	22	4.2	4.1	1.1	--	--	11
MAY 23...	62600	3.7	40	8	21	4.0	4.3	1.1	--	--	12
JUNE 21...	54800	4.0	680	50	20	3.9	4.2	1.2	64	0	13
JULY 25...	39800	4.3	60	360	20	5.0	5.5	1.4	--	--	14
AUG. 08...	40500	4.5	20	10	20	5.2	6.0	1.3	--	--	16
SEP. 26...	38700	6.3	60	10	21	4.7	5.9	1.7	--	--	15

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	PH (UNITS)
FEB. 01...	6.4	.0	.70	80	87	.11	67	16	.2	7.1
MAR. 15...	6.0	.1	.30	106	96	.14	76	16	.2	--
APR. 12...	5.6	.1	.02	82	90	.11	73	8	.2	--
MAY 23...	5.8	.2	.30	85	86	.12	69	14	.2	--
JUNE 21...	5.4	.1	.02	89	84	.12	66	14	.2	--
JULY 25...	7.0	.2	.20	89	92	.12	71	15	.3	--
AUG. 08...	6.8	.1	.02	97	95	.13	72	13	.3	--
SEP. 26...	7.6	.1	.07	93	96	.13	72	17	.3	--

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
FEB. 01...	--	--	154	--	8.0	11.4
MAR. 15...	74	0	200	7.3	12.0	11.6
APR. 12...	72	0	187	7.7	15.0	10.6
MAY 23...	78	0	162	8.0	23.0	9.3
JUNE 21...	--	--	151	7.1	25.5	6.1
JULY 25...	66	0	162	6.7	28.0	5.6
AUG. 08...	72	0	170	6.9	29.0	7.1
SEP. 26...	68	0	162	7.4	27.0	6.3

03591800 BEAR CREEK NEAR HACKLEBURG, ALA.

LOCATION.--Lat 34°17'01", long 87°46'26", in SW¼ sec. 11, T. 9 S., R. 12 W., Marion County, temperature recorder at gaging station on right bank at downstream side of bridge on Alabama Highway 172, 2 miles upstream from Bluff Creek, 3.5 miles east of Hackleburg, and at mile 106.8.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1965 to September 1967.
Water temperatures: March 1965 to September 1972.

EXTREMES.--1971-72.
Water temperatures: Maximum, 28.5°C on several days during July and August; minimum, 3.0°C Jan. 17.

Period of record:
Water temperatures: Maximum, 31.0°C on several days in 1966 and 1969; minimum, freezing point on several days in 1966, 1969, and 1970.

REMARKS.- Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1968 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
NOV.			
02...	28	45	20.0
DEC.			
03...	657	30	5.0
JAN.			
26...	159	--	9.0
MAR.			
01...	147	40	12.0
APR.			
03...	258	--	16.0
MAY			
02...	128	35	18.0
31...	83	40	20.0
JULY			
05...	60	40	23.5
31...	180	--	23.0
SEP.			
06...	14	47	21.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL- ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	22.0	19.5	18.5	8.5	8.0	11.5	10.0	6.5	5.5	13.0	11.5
2	23.5	22.0	19.5	19.0	8.0	7.0	11.0	10.0	6.5	5.5	13.5	12.0
3	23.0	21.0	19.5	18.0	7.0	6.5	11.5	10.5	7.0	6.5	12.0	10.0
4	23.0	21.5	18.0	14.5	8.0	7.0	11.5	10.5	6.5	5.0	10.0	8.5
5	23.0	22.0	14.5	13.0	8.5	8.0	11.5	9.5	5.0	3.5	10.0	9.0
6	22.0	21.0	13.5	12.0	9.5	8.5	9.5	7.0	5.0	4.5	9.5	8.0
7	22.0	19.5	13.5	11.0	10.5	9.5	7.0	6.0	6.0	5.0	10.5	8.5
8	20.5	18.5	11.0	9.5	11.0	10.5	7.0	6.0	6.0	4.5	11.0	10.0
9	20.0	19.0	10.5	10.0	11.0	10.5	9.5	7.0	5.5	4.0	10.5	8.5
10	20.0	18.0	10.5	9.5	14.0	10.5	11.5	9.5	5.5	4.5	10.5	8.5
11	18.5	15.5	10.0	8.5	14.0	11.5	12.0	11.5	6.0	5.0	11.5	9.0
12	17.0	15.0	10.0	9.0	12.0	11.0	12.0	10.0	6.5	6.0	13.0	10.5
13	17.0	16.0	11.0	9.5	12.0	11.5	13.0	10.5	6.5	6.5	13.5	11.5
14	18.0	16.0	12.0	11.0	14.0	12.0	13.0	9.5	6.5	5.0	14.0	13.0
15	19.0	18.0	13.0	11.5	15.0	14.0	9.5	5.5	8.5	6.5	14.0	11.5
16	19.5	18.0	13.0	11.0	14.5	14.5	5.5	3.5	8.5	8.0	14.5	13.5
17	20.0	19.0	12.0	11.0	14.5	13.0	3.5	3.0	9.0	7.0	14.5	12.0
18	20.5	19.5	13.5	11.5	13.0	10.0	5.5	3.5	9.0	8.5	13.0	11.5
19	20.5	19.0	14.0	13.5	10.5	8.5	8.5	5.5	9.0	7.0	14.0	11.5
20	19.5	18.5	13.5	11.5	11.5	9.0	10.5	8.5	7.0	5.5	14.5	12.0
21	19.0	18.5	12.0	11.0	12.0	11.0	11.5	10.5	8.0	6.0	14.5	14.0
22	20.0	19.0	11.0	9.0	12.0	10.5	13.0	11.5	9.0	8.0	14.5	13.0
23	20.0	19.5	9.5	9.0	11.0	10.0	13.0	13.0	10.0	8.5	14.5	13.0
24	20.0	19.5	9.0	8.5	10.5	9.5	14.0	13.0	11.5	10.0	14.0	11.0
25	19.5	19.0	8.5	8.0	10.5	10.0	14.0	11.5	13.5	11.5	11.0	9.5
26	19.0	18.0	8.5	7.0	11.0	10.0	11.5	9.5	13.5	13.0	10.5	8.5
27	18.5	16.5	9.0	8.0	11.5	11.0	10.0	8.5	13.0	10.5	11.5	10.5
28	18.5	16.5	8.5	6.5	12.0	11.5	10.5	10.0	11.5	9.5	15.0	11.5
29	18.5	17.0	9.0	8.5	12.0	11.5	10.5	9.5	11.5	10.5	15.5	14.0
30	18.5	18.0	9.0	8.5	13.0	12.0	9.5	8.0	---	---	14.0	12.0
31	19.0	18.5	---	---	13.0	11.5	8.0	6.0	---	---	13.0	10.5
MONTH	24.0	15.0	19.5	6.5	15.0	6.5	14.0	3.0	13.5	3.5	15.5	8.0

03591800 BEAR CREEK NEAR HACKLEBURG, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	19.0	17.0	21.0	18.0	25.5	23.5	24.0	22.0	25.0	22.0
2	12.0	10.0	19.0	18.5	21.0	17.0	26.0	23.0	25.5	23.0	25.0	22.0
3	13.0	10.0	19.5	18.0	22.0	18.5	26.0	24.0	26.0	24.0	25.5	23.5
4	13.5	12.0	19.5	16.5	23.5	19.5	25.0	24.0	27.0	24.5	25.0	24.0
5	12.0	10.5	19.5	16.0	24.0	20.0	24.5	23.0	26.5	24.5	24.5	23.0
6	16.0	11.0	20.0	16.5	25.0	21.5	23.5	21.0	27.0	24.5	23.5	20.5
7	15.5	14.0	19.0	18.0	26.0	23.0	23.0	19.5	28.0	25.0	24.0	21.5
8	15.5	13.5	19.0	17.0	25.5	22.0	24.0	20.5	27.0	24.5	25.5	23.5
9	13.5	11.0	19.0	18.0	25.5	23.0	24.5	21.5	28.0	25.5	25.5	24.0
10	14.0	11.5	18.5	16.0	25.5	23.5	25.5	22.0	26.0	25.0	25.0	23.0
11	14.5	14.0	18.0	16.0	24.5	21.0	26.0	23.0	26.5	24.0	25.5	23.5
12	16.0	14.5	17.0	16.0	24.0	21.5	26.0	23.5	26.5	24.5	25.0	22.0
13	18.0	16.0	18.5	17.0	25.0	22.0	27.0	23.5	26.0	24.5	25.5	22.0
14	19.0	17.0	19.5	17.0	25.5	23.5	27.0	24.0	27.0	24.0	25.5	23.0
15	20.5	19.0	19.0	18.0	25.5	24.0	27.0	25.0	26.5	24.0	26.0	23.0
16	20.5	19.0	19.0	16.5	25.0	22.0	26.5	25.0	27.0	24.0	26.0	24.0
17	19.0	17.0	19.0	17.0	23.5	22.0	27.0	24.5	28.0	25.0	25.0	23.0
18	18.5	16.0	19.5	17.0	25.0	21.5	28.5	25.0	28.5	25.0	24.5	23.0
19	19.0	16.5	19.5	17.0	24.5	23.0	28.0	25.5	28.5	25.5	24.5	23.5
20	19.5	18.0	19.5	17.0	26.0	22.0	28.5	25.0	28.5	25.5	25.0	23.5
21	19.5	18.5	20.5	18.0	26.5	23.5	28.5	25.0	27.0	24.0	25.5	23.5
22	19.0	17.0	21.5	18.5	25.5	22.0	28.0	25.0	26.5	23.5	25.0	24.0
23	18.0	15.5	22.0	19.0	24.5	20.5	27.0	25.5	26.0	24.5	25.0	24.0
24	18.0	15.5	21.5	20.0	24.5	20.5	26.5	24.5	26.5	24.5	25.0	23.5
25	16.5	15.0	20.5	19.0	24.0	22.0	25.5	24.0	26.5	25.0	25.0	23.5
26	15.0	13.0	21.5	19.0	24.0	21.5	26.5	24.0	27.0	24.5	25.0	23.5
27	16.0	13.5	22.0	20.0	24.0	23.0	28.0	25.0	26.5	25.0	24.5	23.0
28	16.0	15.0	23.0	19.5	23.5	21.5	28.0	26.0	25.5	23.0	24.0	23.5
29	16.0	15.5	22.0	20.5	24.5	21.5	27.0	23.0	25.0	22.0	23.5	23.0
30	18.0	15.5	22.0	20.0	26.0	23.0	24.5	23.0	25.5	22.0	23.0	19.5
31	---	---	21.5	19.5	---	---	24.5	23.0	25.5	23.0	---	---
MONTH	20.5	10.0	23.0	16.0	26.5	17.0	28.5	19.5	28.5	22.0	26.0	19.5

03592200 CEDAR CREEK NEAR PLEASANT SITE, ALA.

LOCATION.--Lat 34°32'56", long 88°01'09", in SW¼ sec. 9, T. 6 S., R. 14 W., Franklin County, temperature recorder at gaging station at highway bridge, 2.6 miles east of Pleasant Site, 4.3 miles upstream from Little Bear Creek, and at mile 19.1.

DRAINAGE AREA.--189 sq mi.

PERIOD OF RECORD.--Water temperatures: January 1963 to April 1972 (discontinued).

EXTREMES.--1971-72.
Water temperatures: Minimum, 3.0°C Jan. 16.

Period of record:
Water temperatures (1963-1971): Maximum, 32.0°C on several days in 1966 and 1969; minimum, freezing point on several days during most years.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
NOV.			
03...	328	219	18.0
DEC.			
16...	453	305	14.0
FEB.			
01...	312	185	--
MAR.			
22...	786	230	15.0
MAY			
02...	142	285	--
JULY			
05...	72	--	25.0
31...	311	--	25.0
SEP.			
06...	17	245	24.0

TEMPERATURE (°C) OF WATER, OCTOBER 1971 TO APRIL 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	21.5	21.0	19.5	8.5	7.0	10.5	9.5	7.0	6.0	16.0	14.0
2	24.0	22.0	21.5	20.0	7.0	6.0	10.5	10.5	9.0	7.0	15.5	12.0
3	23.5	21.5	20.5	16.5	6.5	5.5	11.5	9.0	9.0	6.0	12.0	10.0
4	23.5	21.5	16.5	13.0	8.0	6.5	12.0	11.0	6.0	4.0	10.5	9.5
5	22.0	22.0	13.0	11.0	8.5	8.0	11.0	8.5	5.5	3.5	11.5	10.0
6	22.0	20.5	13.0	11.0	11.5	8.5	8.5	7.0	6.5	5.5	11.0	8.5
7	20.5	19.0	13.0	10.0	11.5	11.5	8.5	6.5	8.0	6.5	13.5	10.5
8	20.0	18.0	10.0	8.0	11.5	11.0	9.5	7.0	6.5	5.0	13.5	11.5
9	19.5	18.0	9.5	9.0	11.5	10.5	12.0	9.5	6.5	5.0	12.0	9.5
10	18.0	15.5	10.5	8.5	15.0	11.5	14.0	12.0	7.0	5.5	13.5	9.5
11	16.5	14.0	10.0	8.0	14.0	11.5	14.5	12.0	8.5	6.0	14.5	10.5
12	18.0	14.5	11.0	8.5	12.0	11.0	13.0	10.5	8.5	8.0	16.5	13.0
13	17.0	15.0	12.0	9.5	13.5	11.5	14.5	13.0	8.0	6.5	16.0	15.0
14	18.5	15.0	14.0	11.0	15.5	13.5	13.0	9.5	9.5	5.5	15.5	13.5
15	19.5	16.5	15.0	13.0	15.5	15.0	9.5	4.5	11.0	9.5	16.5	13.5
16	20.5	17.0	14.5	12.0	15.0	14.5	4.5	3.0	10.0	9.0	16.5	15.0
17	20.5	19.0	14.5	12.0	14.5	11.0	5.0	3.5	10.5	8.5	15.0	13.0
18	21.0	19.5	15.0	13.0	11.0	8.5	9.0	5.0	11.0	9.5	15.5	13.0
19	21.0	19.0	14.5	13.0	10.5	7.0	12.0	9.0	9.5	7.0	16.5	13.0
20	19.5	18.0	13.0	11.0	13.5	10.5	13.5	12.0	8.5	5.5	17.0	14.0
21	19.5	18.5	11.5	9.5	13.0	11.0	14.5	11.5	11.5	8.5	17.0	15.0
22	20.0	19.0	9.5	8.0	12.0	10.5	15.0	14.5	12.0	11.0	16.5	14.0
23	20.5	19.5	8.0	6.5	10.5	10.0	15.0	15.0	13.5	10.5	15.5	13.5
24	20.0	19.0	7.0	6.5	11.0	10.0	16.0	15.0	14.5	13.5	14.5	11.5
25	19.5	18.5	8.0	6.0	11.0	10.5	15.5	10.0	16.0	14.0	11.5	10.0
26	19.0	17.0	6.5	6.0	12.0	10.5	10.0	9.5	16.0	12.0	13.5	9.0
27	19.0	16.5	8.5	6.5	14.0	12.0	12.0	9.5	13.0	11.0	15.0	13.0
28	20.0	18.0	8.0	6.0	13.5	11.5	12.0	10.0	13.5	10.0	18.5	14.5
29	20.0	18.0	9.0	8.0	13.5	11.0	10.0	8.5	14.0	12.0	16.0	14.0
30	19.5	18.0	9.0	8.0	15.0	13.0	8.5	6.0	---	---	16.0	13.0
31	19.5	18.5	---	---	13.0	10.0	6.5	5.5	---	---	15.0	11.0
MONTH	24.0	14.0	21.5	6.0	15.5	5.5	16.0	3.0	16.0	3.5	18.5	8.5

03592200 CEDAR CREEK NEAR PLEASANT SITE, ALA.--Continued

TEMPERATURE (°C) OF WATER, OCTOBER 1971 TO APRIL 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	---	---	---	---	---	---	---	---	---	---
2	13.5	10.5	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03592500 BEAR CREEK AT BISHOP, ALA.

LOCATION.--Lat 34°39'21", long 88°07'21", in SE¼ sec. 5, T. 5 S., R. 15 W., Colbert County, temperature recorder at gaging station on left bank 20 ft upstream from highway bridge, 0.5 mile downstream from Cedar Creek, 0.8 mile southwest of Bishop, and at mile 27.3.

DRAINAGE AREA.--667 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 29.5°C July 21; minimum, 5.5°C February 5.

Period of record:
Water temperatures: Maximum, 31.0°C on several days in 1966 and 1969; minimum, freezing point Dec. 26, 27, 1963, Jan. 1-3, 1964.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, and 1969. No temperature record July 29-Aug. 7 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PH (UNITS)
MAR. 01...	479	16	0	5.2	64	57	6.9

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TEMP-ERATURE (DEG C)
OCT. 01...	98	--	23.5
NOV. 01...	182	100	--
DEC. 17...	2700	100	11.5
JAN. 03...	8560	--	11.0
MAR. 01...	--	160	14.0
APR. 05...	2400	--	11.0
MAY 02...	570	115	19.0
JUNE 01...	339	120	20.0
AUG. 01...	875	--	24.0
SEP. 07...	77	135	23.0

03592500 BEAR CREEK AT BISHOP, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	24.0	20.5	20.5	10.0	9.5	13.0	11.0	8.0	8.0	14.5	13.0
2	26.0	24.0	21.5	20.5	9.5	8.5	11.5	11.0	9.0	8.0	15.0	13.5
3	25.5	23.5	21.0	19.0	8.5	8.0	11.5	11.0	9.0	8.5	13.5	11.0
4	24.5	23.5	19.0	18.5	8.5	8.0	12.0	11.5	8.5	6.0	11.5	10.5
5	24.0	23.5	18.5	15.0	9.0	8.5	11.5	9.5	6.0	5.5	11.5	10.5
6	24.0	23.0	15.5	14.0	11.0	9.0	9.5	9.0	6.5	6.0	11.5	10.5
7	23.0	21.0	15.0	13.5	12.0	11.0	9.5	9.0	8.0	6.5	12.0	11.0
8	21.5	20.5	13.5	12.0	12.0	12.0	10.0	9.0	7.0	6.5	12.0	12.0
9	21.0	20.5	13.0	12.0	12.0	11.0	11.0	10.0	7.0	6.0	12.0	11.0
10	20.5	18.5	13.0	12.0	14.0	11.0	13.5	11.0	7.0	6.5	12.0	10.5
11	19.0	18.0	13.0	11.5	14.5	13.0	13.5	13.0	8.5	7.0	13.5	11.5
12	19.0	18.0	13.5	12.0	13.0	12.0	13.0	11.0	8.5	8.0	14.5	13.0
13	18.5	18.0	14.0	13.0	13.5	13.0	13.0	11.5	8.5	8.0	14.5	14.5
14	19.0	17.0	15.0	14.0	14.5	13.5	12.0	10.0	8.5	7.0	14.5	14.0
15	20.0	18.0	15.5	14.5	15.5	14.5	10.0	8.0	8.5	8.0	15.0	14.0
16	20.5	19.0	15.5	14.5	15.0	14.5	8.0	6.5	9.0	9.0	16.0	15.0
17	20.5	19.5	15.5	14.5	14.5	14.0	8.0	6.5	9.0	9.0	15.5	14.0
18	21.5	20.0	15.5	15.0	14.0	11.5	9.0	8.0	10.0	9.0	14.5	14.0
19	21.5	20.0	16.0	15.0	11.5	11.0	10.5	9.0	9.5	9.0	15.0	14.5
20	20.0	20.0	15.0	14.0	13.5	11.5	11.5	10.5	9.5	7.0	16.0	15.0
21	20.5	19.5	14.5	13.0	13.5	13.0	12.0	11.5	9.5	9.0	16.0	16.0
22	21.0	20.0	13.0	11.0	13.0	11.5	13.0	12.0	10.5	9.5	16.0	15.0
23	20.5	20.0	11.0	10.0	11.5	11.5	13.0	12.0	11.5	10.0	15.5	15.0
24	20.0	20.0	10.0	9.5	11.5	11.0	14.0	12.0	13.0	11.0	15.0	13.0
25	20.0	19.5	10.0	9.5	12.0	11.5	14.0	12.0	14.5	13.0	13.0	11.0
26	19.5	19.0	9.5	9.0	13.0	12.0	12.0	10.5	14.5	13.5	11.5	10.5
27	19.5	18.5	9.5	9.5	13.5	13.0	11.5	10.5	13.5	12.0	13.5	11.5
28	20.0	19.0	9.5	8.5	14.0	13.5	11.5	11.0	13.0	11.5	16.5	13.5
29	20.5	19.5	10.0	9.5	13.5	13.0	11.0	10.0	13.0	12.0	16.5	15.0
30	20.5	19.5	10.0	9.5	14.5	13.0	10.0	9.5	---	---	15.0	13.5
31	20.5	20.0	---	---	14.5	13.0	8.5	8.0	---	---	14.0	13.0
MONTH	26.0	17.0	21.5	8.5	15.5	8.0	14.0	6.5	14.5	5.5	16.5	10.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	20.5	19.0	22.0	20.5	26.5	26.0	---	---	28.0	26.5
2	14.0	13.0	20.0	19.5	22.0	19.5	26.5	26.0	---	---	28.5	26.0
3	15.0	13.5	20.5	19.5	23.0	20.0	26.5	25.0	---	---	28.5	26.5
4	15.0	14.5	20.0	19.0	23.5	21.0	25.5	24.5	---	---	28.0	26.5
5	14.5	13.5	20.0	18.5	24.5	21.5	24.5	23.5	---	---	26.5	26.0
6	15.5	14.0	20.5	19.0	25.0	23.0	24.5	23.0	---	---	25.5	23.5
7	16.5	15.5	20.5	19.5	25.0	24.5	24.5	21.5	---	---	25.5	23.5
8	16.5	15.0	19.5	18.5	25.5	24.5	24.0	23.0	27.0	25.5	25.0	23.5
9	15.0	14.0	19.0	18.5	25.5	24.5	24.0	23.5	27.0	26.0	26.5	24.0
10	15.5	14.5	18.5	17.0	26.0	25.0	25.0	24.0	27.0	26.5	26.0	24.0
11	16.5	15.5	18.5	18.0	25.5	24.0	25.5	24.5	27.0	25.5	25.5	24.0
12	18.5	16.5	18.5	18.0	25.0	23.5	26.0	25.0	27.0	25.5	26.0	24.5
13	19.5	18.5	19.5	18.5	25.5	24.0	26.0	25.5	28.5	26.5	26.0	24.5
14	20.5	19.5	20.5	19.5	25.5	25.0	26.5	25.5	28.0	26.5	26.0	24.5
15	21.5	20.0	20.5	20.0	26.0	25.0	26.0	25.5	28.5	26.0	26.5	25.0
16	21.5	20.5	21.0	20.0	25.5	25.0	26.0	25.5	28.5	25.5	26.0	25.0
17	20.5	19.5	21.0	19.5	25.5	24.5	27.0	25.0	27.0	26.0	25.0	24.5
18	19.5	18.5	21.0	20.0	25.5	24.0	28.5	26.0	28.0	26.0	24.5	24.0
19	20.0	19.5	21.0	20.5	25.5	24.5	28.5	26.5	28.5	26.5	24.5	23.5
20	21.0	20.0	21.0	20.5	26.0	24.5	28.5	26.5	28.5	27.0	25.5	24.0
21	21.0	20.5	21.5	20.5	26.0	25.0	29.5	26.5	27.0	25.5	25.5	24.5
22	21.0	20.5	22.0	21.0	26.0	25.0	29.0	26.5	26.5	25.5	25.5	24.5
23	20.5	19.5	23.5	21.5	25.0	24.0	29.0	27.0	26.5	25.5	25.0	24.0
24	20.5	20.0	23.0	21.5	25.0	24.0	27.0	26.5	26.5	25.5	24.5	23.5
25	20.0	19.0	23.0	21.5	24.5	24.0	27.0	26.0	26.5	25.5	25.0	24.0
26	19.0	17.0	22.0	21.5	24.5	23.5	28.0	26.5	26.5	26.0	25.0	24.0
27	19.0	18.0	23.0	22.0	25.0	24.0	28.5	26.5	27.0	26.0	25.0	24.5
28	19.0	18.5	24.0	21.5	26.0	24.5	28.5	26.5	26.5	25.5	25.0	23.5
29	19.0	18.5	24.0	22.0	26.5	25.0	---	---	26.5	25.0	26.0	22.0
30	19.5	18.5	24.0	22.0	26.5	26.0	---	---	27.0	25.0	22.0	19.5
31	---	---	23.5	21.5	---	---	---	---	28.0	25.0	---	---
MONTH	21.5	13.0	24.0	17.0	26.5	19.5	29.5	21.5	---	---	28.0	19.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03572870 TOWN CREEK AT GUEST BRIDGE, ALA. (LAT 34 25 38 LONG 085 52 33) 1/

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.								
13...	--	2.4	20	4.6	1.1	2.6	2.2	12
DEC.								
22...	520	3.4	20	4.3	1.4	2.3	1.5	4
JAN.								
19...	400	3.0	40	4.6	1.6	1.7	1.2	4
FEB.								
17...	400	3.4	30	4.6	1.3	1.7	1.5	4

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.									
13...	0	4.5	6.0	.19	<.01	<.01	.4	27	28
DEC.									
22...	0	4.4	6.0	.40	.01	.04	1.7	35	27
JAN.									
19...	0	4.5	5.9	.20	<.01	.03	2.1	44	27
FEB.									
17...	0	7.0	6.0	.42	.01	.16	1.0	52	27

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.								
13...	.04	16	6	.3	51	6.6	14.0	5
DEC.								
22...	.05	16	13	.2	50	6.1	9.0	5
JAN.								
19...	.06	18	15	.2	52	6.2	7.5	3
FEB.								
17...	.07	17	14	.2	54	5.9	7.5	5

1/ Chemical data furnished by Tennessee Valley Authority.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03572905 TOWN CREEK AT [illegible] BRIDGE, ALA. (LAT 34 27 26 LONG 086 01 12) 1/

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 13...	15	1.9	20	4.6	.5	2.6	2.7	12
DEC. 22...	600	4.3	20	4.4	1.1	2.3	1.5	4
JAN. 19...	475	3.9	20	4.6	1.6	1.7	1.2	3
FEB. 17...	750	3.5	30	4.4	1.6	1.7	1.5	4

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT. 13...	0	4.2	6.0	.23	<.01	<.01	.5	30	28
DEC. 22...	0	6.0	6.0	.23	.01	.02	1.7	35	28
JAN. 19...	0	6.2	6.0	.17	<.01	.02	2.0	43	27
FEB. 17...	0	7.2	6.0	.30	.01	.05	1.7	47	28

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 13...	.04	14	10	.3	51	6.6	--	5
DEC. 22...	.05	16	13	.3	50	6.1	9.0	5
JAN. 19...	.06	18	16	.2	51	6.1	7.0	3
FEB. 17...	.06	17	14	.2	54	6.2	7.5	5

1/ Chemical data furnished by Tennessee Valley Authority.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03577283 SWAN CREEK AT U.S. HIGHWAY 72 NEAR ATHENS, ALA. (LAT 34 47 05 LONG 086 56 53) 1/

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV.								
08...	1.0	5.4	80	23	4.4	3.0	1.5	80
JAN.								
31...	20	5.1	160	8.0	1.6	2.1	1.0	26
MAR.								
10...	25	3.7	170	8.4	1.7	1.9	.7	26
MAY								
08...	18	4.4	260	14	2.3	2.1	1.2	42
JULY								
19...	--	4.1	110	23	4.7	2.4	1.2	78
SEP.								
15...	16	8.0	140	26	4.9	2.4	1.2	82

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NOV.									
08...	0	5.6	5.5	--	--	--	--	96	88
JAN.									
31...	0	3.3	4.0	.23	.01	.02	.6	68	38
MAR.									
10...	0	3.1	4.5	--	--	--	--	51	36
MAY									
08...	0	8.0	3.5	.71	.02	.08	.3	66	56
JULY									
19...	0	5.6	6.5	.19	.03	.12	1.0	--	96
SEP.									
15...	0	4.9	7.5	.30	.03	.07	1.1	95	91

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
NOV.								
08...	.13	76	10	.2	168	7.0	12.0	5
JAN.								
31...	.07	26	6	.2	70	6.7	3.0	12
MAR.								
10...	.07	28	8	.2	68	7.3	4.0	5
MAY								
08...	.09	45	11	.1	115	6.7	18.0	15
JULY								
19...	.13	76	12	.1	170	7.1	25.5	5
SEP.								
15...	.13	78	12	.1	170	7.4	24.5	6

1/ Chemical data furnished by Tennessee Valley Authority.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03591899 BEAR CREEK LAKE NEAR ATWOOD, ALA. (LAT 34 23 56 LONG 087 59 16) 1/

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NOV.												
03...	2.8	0	5.4	1.6	1.7	1.2	20	0	2.7	3.5	--	<.01
JAN.												
07...	3.8	160	2.8	.7	1.0	.8	5	0	4.7	2.5	.29	.01
MAR.												
03...	4.1	140	3.4	1.0	1.5	.7	10	0	3.7	4.5	.20	<.01
MAY												
02...	3.6	80	3.6	.8	1.2	1.2	11	0	3.8	2.5	.45	.01
JULY												
05...	2.7	90	4.9	1.2	1.5	1.1	18	0	3.7	2.5	.44	.01
SEP.												
06...	2.3	120	5.0	1.9	1.5	1.0	20	0	2.9	3.5	.25	<.01

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
NOV.												
03...	--	.08	28	29	.04	20	4	.2	48	6.6	20.5	5
JAN.												
07...	.04	.4	38	19	.05	10	6	.1	31	6.1	11.0	20
MAR.												
03...	.03	.5	36	24	.05	12	4	.2	39	6.6	12.0	15
MAY												
02...	.01	.3	31	22	.04	12	3	.1	40	6.3	21.0	25
JULY												
05...	.01	.01	33	26	.04	17	2	.2	55	6.5	28.0	5
SEP.												
06...	<.01	<.05	29	28	.04	20	4	.1	54	7.2	28.5	5

1/ Chemical data furnished by Tennessee Valley Authority.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- CHARGE (CFS)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	TEMP- ERATURE (DEG C)
03568790 DIXIE BROWN SPRING NEAR VALLEY HEAD, ALA. (LAT 34 36 48 LONG 087 37 50)			
FIELD ANALYSIS			
OCT., 1971			
20...	1.3	--	16.0
03574500 PAINT ROCK RIVER NEAR WOODVILLE, ALA. (LAT 34 37 27 LONG 086 18 23)			
FIELD ANALYSES			
OCT., 1971			
01...	43	--	18.0
13...	32	342	19.0
DEC.			
02...	38	--	9.0
JAN., 1972			
03...	5280	205	9.0
FEB.			
02...	556	--	8.0
APR.			
03...	808	--	12.0
MAY			
02...	295	235	18.5
JUNE			
01...	113	200	20.5
30...	188	195	25.0
SEP.			
01...	39	205	24.5
03574560 PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE, ALA. (LAT 34 34 47 LONG 086 18 05)			
FIELD ANALYSES			
OCT., 1971			
13...	40	335	20.0
NOV.			
10...	41	302	12.0
JUNE, 1972			
06...	96	263	24.5
03574840 MORRIS BRANCH NEAR TONEY, ALA. (LAT 34 53 57 LONG 086 41 55)			
FIELD ANALYSES			
DEC., 1971			
03...	.76	87	4.0
JAN., 1972			
04...	21	93	10.0
10...	46	64	12.0
03574855 BEAVERDAM CREEK AT PULASKI PIKE NEAR MERIDIANVILLE, ALA. (LAT 34 51 40 LONG 086 53 34)			
FIELD ANALYSES			
OCT., 1971			
04...	1.8	105	20.0
13...	1.4	107	16.0
APR., 1972			
21...	8.6	79	19.0
03574998 BRIER FORK FLINT RIVER NEAR CHASE, ALA. (LAT 34 49 24 LONG 086 29 05)			
FIELD ANALYSES			
OCT., 1971			
04...	28	141	21.0
13...	26	141	16.0
JUNE, 1972			
05...	52	152	17.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03575480 TENNESSEE RIVER AT HUNTSVILLE PUMPING STATION, ALA. (LAT 34 34 06 LONG 086 33 16)

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MAY, 1972								
24...	59500	2.1	0	13	18	4.2	3.4	1.7

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	SODIUM AD-SORP-TION RATIO
MAY, 1972								
24...	12	4.0	.1	.2	74	.10	63	.2

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAY, 1972						
24...	--	62	0	134	7.5	23.0

03575500 TENNESSEE RIVER AT WHITESBURG, ALA. (LAT 34 34 18 LONG 086 33 29)

FIELD ANALYSIS

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
MAR., 1972						
23...	55700	--	--	165	--	--

03575830 INDIAN CREEK NEAR MADISON, ALA. (LAT 34 41 50 LONG 086 42 00)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT., 1971						
13...	5.6	--	--	149	--	15.0
NOV.						
03...	6.7	--	--	155	--	17.0
DEC.						
15...	35	--	--	120	--	15.0
JAN., 1972						
11...	359	--	--	127	--	13.0
17...	93	--	--	171	--	5.0
MAR.						
20...	62	--	--	160	--	15.5
APR.						
10...	53	--	--	165	--	11.5
MAY						
10...	54	--	--	--	--	16.0
JUNE						
30...	7.4	--	--	152	--	--

03575849 INDIAN CREEK 400 FEET UPSTREAM FROM MARTIN ROAD NEAR MADISON, ALA. (LAT 34 38 46 LONG 086 41 12)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT., 1971						
13...	6.4	--	--	184	--	16.0
25...	5.8	--	--	--	--	19.0
31...	4.5	--	--	--	--	19.0
APR., 1972						
19...	93	--	--	181	--	18.0

03575890 PINHOOK CREEK AT HUNTSVILLE, ALA. (LAT 34 43 39 LONG 086 35 36)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
AUG., 1972						
09...	5.0	--	--	--	--	32.0
SEP.						
18...	2.8	--	--	--	--	26.0
27...	630	--	--	128	--	23.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
03576090 BETTS SPRING BRANCH NEAR MADISON, ALA. (LAT 34 38 53 LONG 086 44 32)									
FIELD ANALYSES									
OCT., 1971									
13...	1.7	--	--	--	--	--	220	--	16.0
25...	3.8	--	--	--	--	--	--	--	18.0
NOV.									
01...	5.2	--	--	--	--	--	--	--	20.0
03576100 MILLER BRANCH NEAR TRIANA, ALA. (LAT 34 37 18 LONG 086 45 23)									
FIELD ANALYSES									
OCT., 1971									
14...	.51	--	--	--	--	--	238	--	19.0
NOV.									
02...	.32	--	--	--	-	--	--	--	19.0
APR.									
19...	2.9	--	--	--	--	--	173	--	19.0
03576148 COTACO CREEK AT FLORETTE, ALA. (LAT 34 24 49 LONG 086 41 16)									
MAY, 1972									
12...	64	88	0	4.0	82	10	--	7.6	--
SEP.									
05...	1.5	--	--	4.4	72	--	--	7.7	--
FIELD ANALYSES									
DEC., 1971									
15...	521	--	--	--	--	--	130	--	15.5
MAR., 1972									
20...	419	--	--	--	--	--	175	--	--
MAY									
12...	--	--	--	--	--	--	175	--	15.5
JULY									
11...	6.6	--	--	--	--	--	190	--	--
AUG.									
16...	11	--	--	--	--	--	--	--	26.0
SEP.									
05...	--	--	--	--	--	--	150	--	23.0
03576250 LIMESTONE CREEK NEAR ATHENS, ALA. (LAT 34 45 06 LONG 086 49 24)									
FIELD ANALYSES									
APR., 1972									
18...	148	--	--	--	--	--	71	--	18.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
03585305 RIDGEWAY MILL SPRING AT GOOD SPRINGS, ALA. (LAT 34 56 07 LONG 087 11 52)									
NOV., 1971 04...	.98	50	0	1.2	48	7	--	7.3	--
SEP., 1972 05...	.90	52	0	1.0	42	0	--	6.5	--
FIELD ANALYSES									
NOV., 1971 04...	--	--	--	--	--	--	95	--	15.0
DEC. 17...	1.3	--	--	--	--	--	95	--	15.5
JAN., 1972 25...	1.6	--	--	--	--	--	85	--	15.0
MAR. 21...	1.6	--	--	--	--	--	90	--	15.0
MAY 18...	1.1	--	--	--	--	--	--	--	14.0
JULY 11...	.96	--	--	--	--	--	95	--	15.0
SEP. 05...	--	--	--	--	--	--	95	--	15.0
03586500 BIG NANCE CREEK AT COURTLAND, ALA. (LAT 34 40 12 LONG 087 19 02)									
NOV., 1971 04...	95	86	0	6.4	80	10	--	7.4	--
MAY, 1972 11...	81	92	0	4.4	80	5	--	7.7	--
FIELD ANALYSES									
NOV., 1971 04...	--	--	--	--	--	--	180	--	15.0
DEC. 22...	310	--	--	--	--	--	195	--	8.0
JAN., 1972 25...	249	--	--	--	--	--	--	--	15.0
MAR. 21...	190	--	--	--	--	--	220	--	15.0
MAY 11...	--	--	--	--	--	--	200	--	17.0
JULY 11...	24	--	--	--	--	--	210	--	22.0
AUG. 03...	124	--	--	--	--	--	--	--	23.0
SEP. 05...	7.9	--	--	--	--	--	270	--	21.0
03592000 BEAR CREEK NEAR RED BAY, ALA. (LAT 34 26 38 LONG 088 06 56)									
NOV., 1971 12...	183	20	0	2.8	20	4	--	6.4	--
FIELD ANALYSES									
NOV., 1971 12...	--	--	--	--	--	--	60	--	10.0
DEC. 16...	1450	--	--	--	--	--	45	--	13.0
MAR., 1972 22...	578	--	--	--	--	--	50	--	15.0
MAY 01...	318	--	--	--	--	--	50	--	--
JULY 05...	109	--	--	--	--	--	55	--	22.5
31...	284	--	--	--	--	--	59	--	25.0
SEP. 06...	34	--	--	--	--	--	55	--	22.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

03592101 BEAR CREEK AT MINGO, MISS. (LAT 34 38 00 LONG 087 09 20)

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
NOV., 1971 01...	122	24	0	2.6	22	3	--	6.5	--
JUNE, 1972 13...	185	16	0	2.1	16	3	44	6.6	--

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT., 1971 01...	37	--	--	--	--	--	70	--	23.5
NOV. 01...	--	--	--	--	--	--	55	--	--
DEC. 17...	1900	--	--	--	--	--	45	--	11.5
FEB., 1972 02...	627	--	--	--	--	--	55	--	8.0
APR. 05...	1170	--	--	--	--	--	--	--	10.0
MAY 02...	322	--	--	--	--	--	45	--	19.0
JUNE 13...	--	--	--	--	--	--	--	--	23.0
JULY 05...	255	--	--	--	--	--	50	--	24.5
AUG. 01...	374	--	--	--	--	--	--	--	25.0
SEP. 07...	41	--	--	--	--	--	70	--	23.0

03592300 LITTLE BEAR CREEK NEAR HALLTOWN, ALA. (LAT 34 29 19 LONG 088 02 07)

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
NOV., 1971 03...	72	--	--	--	--	--	140	--	18.0
DEC. 16...	188	--	--	--	--	--	150	--	14.0
MAR., 1972 22...	345	--	--	--	--	--	120	--	15.0
MAY 02...	80	--	--	--	--	--	125	--	18.0
JULY 05...	44	--	--	--	--	--	135	--	23.5
31...	66	--	--	--	--	--	120	--	25.0
SEP. 06...	11	--	--	--	--	--	155	--	22.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02342500 UCHEE CREEK NEAR FORT MITCHELL, ALA. (LAT 32 19 00 LONG 085 00 56)

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV., 1972									
09...	36	26	0	3.4	21	0	--	7.4	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT., 1972									
02...	79	--	--	--	--	--	--	--	14.0
NOV.									
09...	--	--	--	--	--	--	60	--	16.5
DEC.									
19...	473	--	--	--	--	--	45	--	6.0
FEB., 1973									
01...	616	--	--	--	--	--	70	--	8.0
MAR.									
02...	434	--	--	--	--	--	40	--	12.5
MAY									
16...	261	--	--	--	--	--	40	--	18.0
JUNE									
18...	239	--	--	--	--	--	45	--	29.0
SEP.									
17...	54	--	--	--	--	--	60	--	32.0

02362933 SOUTH FORK COWIKEE CREEK NEAR BATESVILLE, ALA. (LAT 32 01 03 LONG 085 17 45)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
SEP., 1973									
11...	11	--	--	--	--	--	80	--	25.0

02363300 ABBIE CREEK NEAR HALEBURG, ALA. (LAT 31 28 26 LONG 085 09 45)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
SEP., 1973									
17...	163	--	--	--	--	--	40	--	26.0

02344000 CHATTAHOOCHEE RIVER AT ALAGA, ALA. (LAT 31 06 54 LONG 085 02 43)

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT., 1972									
16...	--	.07	.030	20	85	5	5	1.6	5.0
JAN., 1973									
16...	--	.31	.090	15	70	110	42	1.5	6.5
APR.									
17...	2.2	.26	.15	11	48	125	57	.5	4.0
JULY									
24...	--	.14	.050	20	78	40	7	1.0	3.0

FIELD ANALYSES

DATE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT., 1972			
16...	8.3	20.0	7.2
JAN., 1973			
16...	6.8	9.0	11.5
APR.			
17...	7.1	10.0	11.1
JULY			
24...	7.0	22.0	8.1

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02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.

LOCATION.--Lat 31°20'30", long 85°36'43", in SE¼ sec. 2, T. 4 N., R. 24 E., Dale County, at gaging station on left bank at downstream side on bridge on State Highway 123, 200 ft (61 m) downstream from abandoned milldam, 1,500 ft (457 m) upstream from Hurricane Creek, 0.8 mile (1.3 km) north of Newton, 1 mile (1.6 km) downstream from Atlantic Coast Line Railroad bridge, and at mile 133.0 (214.0 km).

DRAINAGE AREA.--683 mi^2 (1,769 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1966, February 1972 to September 1973.
Water temperatures: March 1964 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 33.5°C July 17, 18; minimum, 2.5°C Feb. 11.

Period of record:
Water temperatures (1964-1970, 1971-1973): Maximum, 36.0°C July 31, 1968; minimum, -1.0°C Jan. 10, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969 and 1971. No temperature data Oct. 2-Dec. 19 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 17...	117	7.6	190	20	13	1.4	2.2	1.1	--	--	1.6	3.8
NOV. 29...	521	7.2	440	20	7.4	.9	2.2	1.1	--	--	3.6	4.8
JAN. 10...	2530	7.5	650	10	3.7	.7	1.9	.9	--	--	2.2	2.8
MAR. 20...	2140	6.3	1000	30	5.1	.8	1.9	1.1	--	--	2.4	2.6
APR. 19...	1890	6.1	1300	20	4.9	.8	2.4	.9	16	0	1.8	3.2
MAY 22...	749	6.8	810	20	7.0	1.1	3.3	.6	--	--	1.6	3.0
JUNE 27...	484	7.4	1600	10	7.8	1.2	2.1	.8	--	--	1.6	3.2
JULY 25...	238	6.3	190	40	8.0	1.3	2.2	1.0	--	--	1.4	3.0
SEP. 13...	685	7.2	870	30	6.9	.9	3.4	1.3	23	0	3.2	3.2

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 17...	.1	.02	--	42	53	.06	39	3	.2	--	--
NOV. 29...	.2	.02	--	45	38	.06	22	3	.2	--	--
JAN. 10...	.0	.02	--	28	26	.04	12	2	.2	--	--
MAR. 20...	.2	.20	--	35	30	.05	16	1	.2	--	--
APR. 19...	.1	.60	--	36	31	.05	15	2	.3	51	7.0
MAY 22...	.1	.30	--	40	38	.05	22	1	.3	--	--
JUNE 27...	.1	.40	--	45	41	.06	25	1	.2	--	--
JULY 25...	.1	.30	--	44	41	.06	26	0	.2	--	--
SEP. 13...	.1	--	.09	38	39	.05	21	2	.3	55	6.7

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
03...	236	--	--	--	--	14.0	--
17...	--	43	0	86	7.9	22.0	10.0
NOV.							
09...	250	--	--	70	--	14.0	--
29...	--	23	0	59	6.9	11.5	10.0
DEC.							
19...	653	--	--	60	--	8.0	--
JAN.							
10...	--	12	0	36	6.4	8.0	11.3
31...	1260	--	--	60	--	6.0	--
MAR.							
08...	1640	--	--	40	--	10.0	--
20...	--	18	0	44	7.0	16.0	9.7
APR.							
19...	--	--	--	--	--	19.5	9.2
MAY							
14...	811	--	--	60	--	21.0	--
22...	--	26	0	42	7.2	24.0	9.2
JUNE							
21...	917	--	--	60	--	23.5	--
27...	--	30	0	64	7.3	26.0	8.2
JULY							
25...	--	32	0	65	7.6	28.0	8.6
SEP.							
12...	591	--	--	60	--	26.0	--
13...	--	--	--	--	--	25.5	7.8

02361000 CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	10.5	---	---	---	---	15.5	15.5	12.0	8.0	15.0	12.0
2	---	---	---	---	---	---	15.5	14.5	13.5	12.0	15.5	14.0
3	---	---	---	---	---	---	14.5	14.5	13.0	11.0	18.5	15.5
4	---	---	---	---	---	---	16.5	14.5	11.5	8.5	18.5	17.5
5	---	---	---	---	---	---	16.5	14.5	11.5	8.0	19.0	18.0
6	---	---	---	---	---	---	15.5	15.0	13.5	10.5	20.5	18.5
7	---	---	---	---	---	---	15.0	13.5	14.5	12.5	20.5	19.5
8	---	---	---	---	---	---	13.5	10.0	16.0	14.0	20.0	18.0
9	---	---	---	---	---	---	10.0	7.5	14.0	7.0	20.5	19.0
10	---	---	---	---	---	---	7.5	6.5	7.0	3.5	21.0	20.0
11	---	---	---	---	---	---	7.0	6.0	4.0	2.5	22.0	20.5
12	---	---	---	---	---	---	6.5	5.5	4.5	3.0	21.5	19.0
13	---	---	---	---	---	---	5.5	4.0	6.5	3.5	21.0	19.5
14	---	---	---	---	---	---	5.0	3.5	11.5	6.5	22.5	21.0
15	---	---	---	---	---	---	7.0	4.5	11.5	11.0	24.0	22.0
16	---	---	---	---	---	---	7.0	5.5	11.0	9.0	24.5	22.5
17	---	---	---	---	---	---	8.5	6.0	9.0	6.5	22.5	18.0
18	---	---	---	---	---	---	11.5	8.0	7.5	6.0	18.0	15.0
19	---	---	---	---	---	---	14.0	11.5	9.5	6.5	18.5	14.5
20	---	---	---	---	12.0	9.0	13.0	11.0	11.0	7.5	17.5	17.0
21	---	---	---	---	15.0	12.0	14.0	11.5	11.0	8.5	17.5	16.0
22	---	---	---	---	15.0	14.0	14.5	13.0	10.5	8.5	16.5	13.5
23	---	---	---	---	14.0	12.5	14.0	12.0	12.0	9.5	17.0	13.0
24	---	---	---	---	13.5	11.5	13.0	11.5	12.5	9.0	16.5	14.5
25	---	---	---	---	12.5	11.0	11.5	9.5	13.0	11.0	18.0	16.0
26	---	---	---	---	11.0	9.5	12.5	10.5	14.5	12.5	18.5	17.0
27	---	---	---	---	10.0	8.0	12.5	11.0	15.5	12.5	18.5	16.0
28	---	---	---	---	8.5	6.5	13.0	12.0	15.0	12.0	18.0	16.5
29	---	---	---	---	10.0	8.0	12.0	9.0	---	---	18.0	17.0
30	---	---	---	---	12.5	10.0	9.0	6.5	---	---	18.0	18.0
31	---	---	---	---	15.5	12.5	8.0	6.0	---	---	19.5	18.0
MONTH	---	---	---	---	---	---	16.5	3.5	16.0	2.5	24.5	12.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	19.0	21.0	17.0	23.0	21.0	30.5	27.5	32.0	30.0	27.0	25.5
2	21.0	19.5	21.0	19.0	23.0	19.5	30.5	27.0	30.5	29.0	28.0	25.5
3	20.5	19.0	21.0	20.0	24.0	21.0	31.0	28.0	30.0	28.5	28.0	25.0
4	19.5	18.5	20.5	17.0	24.0	22.0	32.0	28.0	30.0	28.5	28.5	25.0
5	18.5	16.5	20.0	16.0	24.0	22.0	32.0	29.5	29.5	28.0	28.5	26.0
6	17.0	16.0	19.0	15.5	23.5	22.0	31.0	27.5	31.0	28.0	28.0	26.0
7	17.5	15.5	18.5	16.0	23.0	21.5	30.5	28.0	31.0	28.5	27.0	24.5
8	18.5	16.5	19.0	18.5	22.0	20.5	32.0	27.0	31.5	28.0	28.0	24.0
9	18.0	17.0	22.0	18.5	23.0	21.0	32.0	29.0	31.5	29.0	27.5	25.5
10	17.0	15.0	22.5	19.0	24.5	22.0	32.5	28.5	31.5	29.0	26.5	25.5
11	16.0	13.0	22.5	19.0	24.5	23.0	31.0	28.5	31.5	28.5	27.0	24.5
12	17.0	13.0	23.5	21.0	25.5	24.0	32.0	29.0	32.0	29.0	27.0	25.5
13	19.0	15.0	23.5	21.0	25.5	23.5	31.5	29.5	31.5	27.5	27.0	25.5
14	20.0	16.5	22.5	19.0	26.0	24.0	31.0	29.5	31.5	28.0	26.5	25.0
15	20.5	17.0	21.0	17.0	27.0	24.5	31.5	28.0	30.5	28.0	26.0	24.5
16	21.5	19.0	19.0	15.0	27.5	25.0	32.5	29.5	28.0	26.0	26.0	24.0
17	22.0	20.0	18.5	14.0	27.5	25.5	33.5	30.0	29.5	25.5	26.0	24.5
18	22.0	20.5	19.0	15.0	26.0	24.0	33.5	30.5	29.5	26.5	26.0	24.0
19	22.0	19.5	19.5	15.0	26.0	24.5	31.0	29.5	30.0	27.0	25.0	22.5
20	23.5	20.0	21.0	17.5	25.5	24.0	32.0	29.0	30.0	27.0	24.0	20.0
21	24.0	21.0	21.5	18.0	29.0	25.5	32.5	29.5	31.0	27.0	24.0	20.5
22	23.5	21.5	23.5	19.5	30.0	27.0	33.0	30.0	30.0	25.5	26.0	22.5
23	23.5	21.5	25.0	22.5	30.0	28.0	33.0	29.5	28.5	24.5	26.5	23.0
24	24.5	22.5	25.0	21.5	30.0	27.0	32.5	30.0	29.0	24.5	26.5	22.5
25	24.5	23.0	22.5	21.0	29.5	26.5	32.0	30.0	27.0	24.0	26.0	22.5
26	23.0	20.0	22.5	18.5	29.5	26.0	31.0	29.0	27.0	24.5	25.5	23.0
27	20.0	17.5	20.0	18.5	30.5	26.5	29.0	27.5	28.5	25.0	24.5	22.5
28	17.5	16.0	22.0	20.0	31.0	28.0	29.0	27.0	27.0	25.0	25.0	23.0
29	18.0	15.0	22.0	21.0	31.5	28.0	29.5	27.5	28.5	24.0	26.0	23.5
30	19.0	15.5	22.5	21.0	31.5	26.5	31.0	28.5	28.5	25.0	26.0	23.5
31	---	---	23.0	21.5	---	---	32.0	29.0	28.5	26.0	---	---
MONTH	24.5	13.0	25.0	14.0	31.5	19.5	33.5	27.0	32.0	24.0	28.5	20.0

02363000 PEA RIVER NEAR ARITON, ALA.

LOCATION.--Lat 31°35'41", long 85°46'39", in SW¼ sec. 7, T. 7 N., R. 23 E., Dale County, at gaging station, on left bank at downstream side of abandoned bridge, and about 20 ft (6 m) upstream from bridge on U.S. Highway 231, 2.2 miles (3.5 km) downstream from Bryars Mill Creek, 2.8 miles (4.5 km) downstream from Atlantic Coast Line Railroad bridge, 3.5 miles (5.6 km) west of Ariton, and at mile 89.6 (144.2 km).

DRAINAGE AREA.--492 mi² (1,274 km²).

PERIOD OF RECORD.--July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 17...	18	7.9	200	60	13	1.4	2.8	1.4	--	--	2.6	4.2
NOV. 29...	268	8.8	270	30	4.5	.9	2.6	1.6	--	--	8.6	5.6
JAN. 10...	1630	7.2	520	30	3.1	.6	1.8	1.0	--	--	3.4	2.8
MAR. 20...	2040	4.7	1000	50	4.8	.7	2.2	1.1	--	--	5.6	3.0
APR. 20...	1170	6.0	1500	50	4.4	.7	2.3	.9	--	--	2.2	2.8
MAY 22...	252	7.4	150	40	7.7	1.2	3.1	.8	29	0	1.8	2.4
JUNE 27...	248	6.7	1400	10	8.6	1.3	2.9	.8	--	--	1.4	3.4
JULY 25...	113	9.0	390	80	7.8	1.3	2.1	1.1	--	--	2.2	3.8
SEP. 13...	158	8.7	540	60	11	1.5	3.6	1.5	37	0	2.7	3.9

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 17...	.0	.02	--	--	56	.07	38	5	.2	--	--
NOV. 29...	.2	.05	--	37	37	.05	15	8	.3	--	--
JAN. 10...	.0	.00	--	25	24	.03	10	4	.2	--	--
MAR. 20...	.2	.09	--	--	28	.04	15	5	.3	--	--
APR. 20...	.1	.10	--	33	28	.04	14	0	.3	51	--
MAY 22...	.1	.07	--	41	39	.06	24	0	.3	64	7.2
JUNE 27...	.1	.05	--	50	40	.07	27	1	.2	--	--
JULY 25...	.1	.20	--	49	43	.07	25	1	.2	--	--
SEP. 13...	.1	--	.09	56	52	.08	34	3	.3	79	7.2

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 17...	41	0	84	7.1	22.0	9.1
NOV. 29...	9	0	49	6.9	10.5	10.6
JAN. 10...	8	0	32	6.6	8.0	10.8
MAR. 20...	12	0	37	6.6	15.5	9.8
APR. 20...	17	0	--	6.8	18.5	8.5
MAY 22...	--	--	--	--	23.0	8.6
JUNE 27...	32	0	67	7.1	26.5	8.2
JULY 25...	30	0	66	7.1	28.0	7.7
SEP. 13...	--	--	--	--	26.0	7.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02369800 BLACKWATER RIVER NEAR BRADLEY, ALA. (LAT 31 01 39 LONG 086 42 36)

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT., 1972			
04...	34	--	14.0
NOV.			
10...	50	10	14.5
DEC.			
22...	1950	60	6.0
JAN., 1973			
30...	153	60	8.0
MAR.			
06...	167	20	16.0
MAY			
12...	86	60	19.5
JUNE			
22...	206	30	21.5
AUG.			
08...	149	--	22.0
SEP.			
13...	392	25	24.5
14...	350	25	--

02371200 INDIAN CREEK NEAR TROY, ALA.

LOCATION.--Lat 31°48'50", long 86°07'15", in SE¼ sec. 26, T. 10 N., R. 19 E., Pike County, at gaging station at left downstream wingwall of culvert on U.S. Highway 29, 3.5 miles (5.7 km) upstream from mouth and 9 miles (14 km) west of Troy.

DRAINAGE AREA.--8.88 mi² (23.00 km²).

PERIOD OF RECORD.--Water temperatures: December 1970 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 26.0°C July 26; minimum, 4.5°C Jan. 14, 15.

Period of record:
Water temperatures: Maximum, 28.0°C June 26, 1971; minimum, 4.0°C Feb. 10, 1971.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1969, 1971, and 1972. No temperature data for Oct. 23-Nov. 9 and July 6-13 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT. 04...	1.2	60	10.0
NOV. 09...	1.9	60	12.0
DEC. 27...	12	50	--
JAN. 29...	14	70	7.0
MAR. 06...	22	60	14.0
MAY 14...	15	50	17.0
JULY 13...	5.2	50	23.0
AUG. 09...	6.6	--	22.0
SEP. 13...	4.7	60	22.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973 (CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER MAX	OCTOBER MIN	NOVEMBER MAX	NOVEMBER MIN	DECEMBER MAX	DECEMBER MIN	JANUARY MAX	JANUARY MIN	FEBRUARY MAX	FEBRUARY MIN	MARCH MAX	MARCH MIN
1	20.5	19.5	----	----	9.5	8.5	10.0	10.0	5.5	5.0	11.0	10.5
2	20.0	19.0	----	----	9.0	7.5	10.0	10.0	8.0	5.5	11.5	11.0
3	20.5	19.0	----	----	9.0	8.0	10.0	10.0	8.0	7.5	13.0	11.5
4	21.5	20.5	----	----	9.5	9.0	11.0	10.0	7.5	6.0	13.5	13.0
5	22.0	21.0	----	----	10.5	9.5	10.0	9.5	7.0	6.0	13.5	13.5
6	21.5	20.5	----	----	11.0	10.5	9.5	9.5	8.0	7.0	14.5	13.5
7	20.5	20.0	----	----	11.5	11.0	9.5	9.5	8.5	8.0	15.0	14.5
8	20.0	19.0	----	----	11.5	11.5	9.5	8.5	9.0	8.5	15.5	15.0
9	19.0	18.0	----	----	12.0	11.5	8.5	8.0	9.0	5.0	16.0	15.5
10	19.5	18.0	13.0	12.5	12.5	12.0	8.0	7.0	8.0	6.0	16.0	16.0
11	20.0	19.0	13.0	12.5	13.5	12.5	7.0	6.5	6.0	5.0	16.5	16.0
12	20.0	19.0	13.5	12.5	13.5	13.5	6.5	6.0	6.0	5.5	16.5	16.0
13	19.0	18.0	13.5	13.0	14.0	13.5	6.0	5.0	5.5	5.0	16.5	16.5
14	20.0	18.5	14.0	13.5	14.0	14.0	5.5	4.5	6.0	5.5	17.0	16.5
15	20.5	19.5	14.0	12.5	14.0	14.0	5.5	4.5	7.0	6.0	17.5	17.0
16	20.0	19.0	12.5	11.0	14.0	12.5	5.5	5.0	7.5	7.0	18.0	17.5
17	20.0	19.0	11.0	10.5	12.5	11.0	6.0	5.0	8.5	7.5	18.0	17.5
18	20.5	19.5	10.5	9.5	11.0	9.5	6.5	5.5	8.0	7.0	17.5	15.5
19	20.5	18.5	10.5	10.0	10.0	9.0	8.0	6.5	7.5	7.0	16.0	15.5
20	18.5	16.5	10.5	10.0	10.0	9.5	8.0	7.0	8.0	7.5	16.0	15.5
21	16.5	15.5	10.0	9.0	11.0	10.0	7.5	7.0	8.5	8.0	16.0	15.5
22	17.5	16.0	10.0	9.5	11.0	11.0	7.0	6.5	8.5	8.0	15.5	14.5
23	----	----	9.5	9.0	11.0	11.0	7.0	6.5	8.5	8.0	15.0	14.0
24	----	----	9.0	8.0	11.0	10.0	7.0	6.5	10.0	8.5	15.0	14.5
25	----	----	8.5	8.5	10.0	10.0	6.5	6.0	10.0	9.5	15.0	14.5
26	----	----	9.0	8.5	10.0	9.5	6.5	6.0	10.5	10.0	15.5	15.0
27	----	----	9.0	8.0	9.5	8.5	7.0	6.0	11.0	10.5	15.5	15.0
28	----	----	9.0	8.5	8.5	8.0	7.0	6.5	11.0	10.5	15.5	15.0
29	----	----	9.0	9.0	8.5	8.0	7.0	6.5	----	----	15.5	15.0
30	----	----	9.5	9.0	8.5	8.5	6.5	5.0	----	----	15.5	15.5
31	----	----	----	----	10.0	8.5	5.5	5.0	----	----	17.5	15.5
MONTH	---	---	---	---	14.0	7.5	11.0	4.5	11.0	5.0	18.0	10.5

02371200 INDIAN CREEK NEAR TROY, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	17.0	16.0	20.0	19.5	22.0	22.0	23.0	23.0	22.5	22.5
2	17.5	15.0	17.0	17.0	20.0	19.5	22.5	22.0	23.0	23.0	22.5	22.5
3	17.5	16.0	17.0	17.0	20.0	19.5	23.0	22.5	23.0	22.0	22.5	22.5
4	16.5	16.0	17.0	16.0	20.0	20.0	23.5	23.0	22.0	22.0	23.0	22.0
5	16.5	13.5	16.5	15.5	20.0	20.0	24.0	23.5	22.0	22.0	23.0	22.5
6	15.5	14.0	16.0	15.5	20.0	20.0	---	---	22.0	22.0	23.0	22.5
7	15.5	14.5	16.0	15.5	20.0	20.0	---	---	22.0	22.0	23.0	23.0
8	16.5	14.0	16.5	16.0	20.0	20.0	---	---	22.5	22.0	23.5	23.0
9	16.0	13.0	17.5	16.5	20.0	20.0	---	---	22.5	22.0	23.5	23.0
10	15.0	11.5	17.5	17.0	20.5	20.0	---	---	22.5	22.5	23.5	23.5
11	14.5	10.0	18.5	17.5	20.5	20.5	---	---	22.5	22.0	23.5	23.5
12	16.0	10.5	18.5	18.5	20.5	20.5	---	---	22.5	22.5	23.5	23.5
13	17.0	12.5	18.5	18.5	20.5	20.5	---	---	22.5	22.0	23.5	23.5
14	16.5	13.5	18.5	17.0	20.5	20.5	23.0	23.0	22.5	22.5	23.5	23.5
15	17.0	13.0	18.0	17.0	21.0	20.5	23.0	22.5	22.5	22.5	23.5	23.5
16	17.5	15.5	17.5	16.5	21.5	21.0	23.0	22.5	22.5	22.0	23.5	23.0
17	17.5	16.0	16.5	16.0	21.5	21.5	23.5	23.0	22.0	22.0	23.0	23.0
18	17.0	16.0	16.5	16.0	21.5	21.5	23.5	23.0	22.5	22.0	23.0	22.0
19	19.0	16.0	16.5	16.0	21.5	21.5	23.5	23.0	22.5	22.5	22.0	20.5
20	19.0	16.5	18.0	16.5	21.5	21.0	23.5	23.0	22.5	22.0	21.0	19.0
21	19.5	17.0	18.0	17.5	21.5	21.0	24.0	23.0	22.5	22.5	20.5	19.0
22	19.0	17.0	19.0	18.0	21.5	21.5	24.5	23.5	22.5	21.5	22.0	20.5
23	18.5	17.0	19.5	19.0	21.5	21.5	25.0	23.5	22.0	21.0	22.5	21.5
24	19.5	18.0	19.5	19.5	21.5	21.0	26.0	24.0	21.5	21.0	22.5	21.5
25	19.5	18.5	19.5	19.0	21.5	21.0	25.0	23.5	22.0	21.0	22.5	21.5
26	18.5	18.0	19.0	19.0	21.5	21.0	23.5	23.0	22.0	21.5	22.5	22.0
27	18.0	16.5	19.0	19.0	21.5	21.0	23.0	22.5	22.5	21.5	22.5	22.0
28	16.5	14.5	20.0	19.0	22.0	21.5	23.0	22.5	22.0	22.0	23.0	22.5
29	16.0	14.5	20.0	20.0	22.0	22.0	23.0	22.5	22.0	22.0	23.0	22.0
30	16.5	15.0	20.0	19.5	22.0	21.5	23.0	23.0	22.5	22.0	23.0	22.5
31	---	---	20.0	19.5	---	---	23.0	22.5	22.5	22.0	---	---
MONTH	19.5	10.0	20.0	15.5	22.0	19.5	---	---	23.0	21.0	23.5	19.0

02371500 CONECUH RIVER AT BRANTLEY, ALA.

LOCATION.--Lat 31°34'24", long 86°15'06", in SE¼ sec. 16, T. 7 N., R. 18 E., Crenshaw County, at gaging station on left bank at downstream side of bridge on U.S. Highway 331 and State Highway 52, 0.5 mile (0.8 km) downstream from Moody Mill Creek, 0.8 mile (1.3 km) southeast of Brantley, and at mile 112.3 (180.7 km).

DRAINAGE AREA.--492 mi^2 (1,274 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1968, February 1972 to September 1973.
Water temperatures: March 1964 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 28.0°C July 23; minimum, 5.0°C Jan. 14, Feb. 12-13.

Period of record:
Water temperatures (1964-1970, 1971-1973): Maximum, 29.0°C on several days in 1964, 1968, and 1969; minimum, 2.0°C Jan. 31, Feb. 1, 1966, Jan. 9-11, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1969 and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 17...	32	11	370	57	28	1.5	2.8	1.2	--	--	3.0	3.2
NOV. 29...	219	8.3	80	10	7.0	.8	2.3	1.3	--	--	5.6	4.0
JAN. 10...	1400	7.6	670	30	5.3	1.0	2.1	1.1	--	--	4.8	2.6
MAR. 20...	1790	5.5	950	50	7.1	1.2	1.9	1.3	--	--	3.6	3.2
APR. 19...	1590	5.8	1100	60	5.9	1.1	2.3	1.0	--	--	3.0	2.8
MAY 23...	354	7.6	150	60	7.5	1.5	3.4	.8	--	--	2.0	3.2
JUNE 28...	360	7.6	1900	0	11	1.3	2.9	.9	--	--	2.2	3.4
JULY 25...	154	8.5	390	90	14	1.4	2.3	1.2	--	--	2.4	3.2
SEP. 13...	158	8.7	530	40	13	1.3	3.9	1.1	47	0	3.4	3.1

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 17...	.0	.40	--	100	96	.14	76	3	.1	--	--
NOV. 29...	.2	.05	--	--	41	.06	21	3	.2	--	--
JAN. 10...	.0	.02	--	42	33	.06	17	4	.2	--	--
MAR. 20...	.2	.20	--	28	35	.04	23	7	.2	--	--
APR. 19...	.1	.10	--	38	32	.05	19	3	.2	56	--
MAY 23...	.1	.20	--	46	44	.06	25	0	.3	82	--
JUNE 28...	.1	.40	--	50	51	.07	33	0	.2	--	--
JULY 25...	.1	.30	--	65	59	.09	41	2	.2	--	--
SEP. 13...	.1	--	.24	57	59	.08	38	0	.3	92	7.4

02371500 CONECUH RIVER AT BRANTLEY, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	63	--	--	--	--	14.5	--
17...	--	88	0	158	7.2	20.0	8.7
NOV.							
10...	75	--	--	120	--	14.5	--
29...	--	22	0	60	7.1	10.5	9.8
JAN.							
10...	--	12	0	42	6.9	8.0	10.0
29...	1330	--	--	100	--	10.0	--
MAR.							
06...	699	--	--	60	--	15.5	--
20...	--	20	0	47	6.8	16.0	8.1
APR.							
19...	--	20	0	--	6.7	18.5	8.2
MAY							
14...	1160	--	--	40	--	19.0	--
23...	--	35	0	--	7.0	22.0	7.7
JUNE							
28...	--	40	0	84	7.0	25.0	6.9
JULY							
11...	143	--	--	90	--	26.0	--
25...	--	48	0	95	7.2	26.0	7.0
AUG.							
08...	254	--	--	--	--	24.0	--
SEP.							
13...	--	--	--	--	--	26.0	7.8
14...	168	--	--	--	--	27.0	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	19.0	18.0	17.0	10.5	9.5	12.5	12.0	10.0	8.5	12.5	12.0
2	20.0	18.5	19.0	17.5	9.5	9.0	12.5	12.5	11.0	10.0	13.0	12.5
3	20.0	19.0	20.0	19.0	10.0	9.0	13.0	12.5	11.0	10.5	14.0	13.0
4	21.5	19.0	19.5	18.0	10.5	10.0	13.5	12.5	10.5	10.0	14.5	14.0
5	21.5	20.5	18.0	16.5	14.5	10.0	13.5	13.0	10.5	10.0	15.0	14.5
6	21.5	20.0	17.0	16.5	16.0	14.0	13.0	13.0	11.5	10.5	15.5	15.0
7	21.0	19.5	17.0	16.5	16.0	14.5	13.0	12.0	12.0	11.5	16.5	15.5
8	20.5	19.0	17.0	15.5	14.5	14.5	12.0	10.5	12.5	12.0	17.0	16.5
9	19.0	17.0	15.5	14.0	15.5	14.5	10.5	9.0	12.5	7.5	18.0	17.0
10	19.0	17.0	15.0	13.5	16.0	15.5	9.0	8.0	7.5	6.0	18.0	18.0
11	20.0	18.0	15.5	14.5	16.5	16.0	8.0	7.5	6.0	5.5	18.0	17.0
12	20.0	17.5	15.5	14.5	17.0	16.5	7.5	6.0	5.5	5.0	18.0	16.5
13	20.0	17.5	16.0	15.0	17.5	17.0	6.0	5.5	5.5	5.0	19.0	18.0
14	20.5	18.0	16.5	16.0	17.5	17.5	5.5	5.0	8.0	5.5	19.5	18.5
15	21.5	19.0	16.0	15.0	17.5	16.5	6.0	5.5	9.0	8.0	20.5	19.5
16	21.0	18.5	15.0	13.5	16.5	14.0	6.0	6.0	9.0	8.5	21.0	20.5
17	21.0	19.0	13.5	12.0	14.0	11.0	7.0	6.0	8.5	7.0	20.5	17.5
18	21.0	19.5	12.0	11.5	11.0	9.5	8.5	7.0	7.5	7.0	17.5	15.5
19	20.5	18.5	12.5	11.5	9.5	9.0	10.0	8.5	8.5	7.5	16.5	15.5
20	18.5	16.5	12.5	11.5	10.0	9.0	10.0	10.0	9.0	8.0	16.5	16.0
21	17.0	15.5	11.5	11.0	13.5	10.0	12.5	10.0	9.0	9.0	16.0	15.0
22	18.0	15.5	11.0	10.5	13.5	13.0	12.5	12.0	9.0	9.0	15.0	14.0
23	18.5	17.0	10.5	10.0	13.0	11.5	12.0	11.5	10.0	9.0	15.0	13.5
24	19.0	18.0	10.0	9.5	11.5	11.0	11.5	11.0	10.0	10.0	15.0	14.5
25	18.5	16.5	10.0	9.5	11.5	11.0	11.0	10.0	11.0	10.0	16.0	14.5
26	16.5	15.5	10.5	10.0	11.0	10.0	11.0	10.0	11.5	11.0	16.0	15.0
27	17.0	16.0	10.0	9.0	10.0	9.0	11.0	11.0	12.0	11.5	15.5	14.5
28	17.0	16.0	10.0	9.5	9.0	8.5	11.5	11.0	12.0	12.0	15.5	15.0
29	16.5	16.0	10.5	10.0	9.0	8.5	11.5	9.5	---	---	15.5	15.5
30	17.0	16.0	11.0	10.5	10.0	9.0	9.5	8.5	---	---	15.5	15.5
31	18.0	16.5	---	---	12.0	10.0	8.5	8.5	---	---	16.5	15.5
MONTH	21.5	15.5	20.0	9.0	17.5	8.5	13.5	5.0	12.5	5.0	21.0	12.0

02371500 CONECUH RIVER AT BRANTLEY, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	18.5	17.0	23.0	23.0	25.5	25.0	27.0	26.0	25.5	24.5
2	17.5	17.0	19.0	18.0	23.0	22.0	26.0	24.5	26.0	25.0	25.0	24.5
3	17.0	17.0	19.0	19.0	23.0	22.5	26.5	24.5	26.0	24.5	25.5	24.0
4	17.5	17.0	19.0	18.0	24.0	23.0	27.0	25.0	26.0	25.0	26.0	24.5
5	17.0	16.0	18.5	18.0	24.0	23.0	27.5	26.0	25.0	24.5	26.0	24.5
6	16.0	15.0	18.0	18.0	23.5	23.0	27.5	26.0	25.5	24.5	26.5	25.0
7	15.5	14.5	18.0	18.0	23.5	23.0	27.0	26.0	26.0	25.0	27.0	25.0
8	16.0	15.0	18.5	18.0	23.0	23.0	27.0	25.0	25.5	24.0	27.0	25.5
9	15.5	15.0	19.5	18.5	23.0	23.0	27.0	25.5	25.5	24.5	26.5	25.5
10	15.0	14.0	20.0	19.0	23.5	23.0	27.0	26.0	25.5	24.5	26.5	25.5
11	14.0	13.5	21.0	20.0	24.0	23.5	26.5	26.0	26.0	25.0	26.5	25.5
12	14.0	13.0	21.5	21.0	24.0	23.5	27.0	25.0	25.5	25.0	26.5	26.0
13	15.0	14.0	21.5	21.0	24.0	23.5	27.0	26.0	26.5	25.0	26.5	26.0
14	15.0	14.5	21.0	20.0	24.5	24.0	26.5	26.0	26.0	25.5	27.0	25.5
15	16.0	15.0	20.5	20.0	24.5	24.0	26.0	25.0	26.0	25.5	27.0	26.0
16	17.0	16.0	20.0	19.5	25.0	24.5	27.0	25.5	26.0	25.0	26.5	25.5
17	17.0	17.0	19.5	19.0	25.0	24.5	27.5	26.0	26.0	25.0	26.0	25.0
18	17.5	17.0	19.5	18.5	24.5	24.0	27.5	26.5	26.5	25.5	25.5	24.5
19	18.0	17.0	20.0	18.5	24.5	23.0	27.0	26.5	26.5	25.5	25.0	23.5
20	19.0	18.0	20.5	19.5	24.0	23.0	27.0	26.5	26.5	25.0	24.0	23.0
21	19.5	19.0	21.0	20.0	24.5	23.5	27.5	26.5	27.0	25.5	24.0	23.0
22	19.5	19.5	22.0	21.0	25.0	24.0	27.0	26.0	26.5	25.0	25.0	23.0
23	19.5	19.5	23.0	22.0	25.0	24.5	28.0	26.0	25.5	24.0	25.5	23.5
24	20.5	19.5	23.0	22.5	25.0	24.5	27.5	26.5	25.5	23.5	25.0	24.0
25	20.5	20.0	23.0	22.0	25.0	24.5	27.5	26.0	26.0	24.0	25.5	24.0
26	20.0	19.5	23.0	22.0	25.0	24.0	27.0	26.0	25.0	24.0	25.0	24.0
27	19.5	18.0	22.0	21.5	25.5	24.0	26.0	25.0	25.5	24.0	25.0	24.0
28	18.0	17.0	23.0	22.0	25.5	24.0	26.0	25.0	26.0	24.5	25.0	24.5
29	17.5	16.5	23.0	23.0	26.0	25.0	26.5	25.0	25.5	24.0	25.5	24.0
30	17.5	16.5	23.0	22.5	25.5	24.5	27.0	25.0	26.0	24.0	25.5	24.5
31	---	---	23.0	22.5	---	---	27.0	25.0	26.0	24.5	---	---
MONTH	20.5	13.0	23.0	17.0	26.0	22.0	28.0	24.5	27.0	23.5	27.0	23.0

02374500 MURDER CREEK NEAR EVERGREEN, ALA.

LOCATION.--Lat 31°25'06", long 86°59'12", in NW¼ sec. 8, T. 5 N., R. 11 E., Conecuh County, at gaging station on left bank 30 ft (9 m) upstream from railroad bridge on U.S. Highway 31, 1 mile (1.6 km) upstream from Louisville & Nashville bridge, and 2.5 miles (4.0 km) southwest of Evergreen.

DRAINAGE AREA.--170 mi^2 (440 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
18...	78	7.8	90	50	3.9	.7	1.4	.6	--	--	.4	2.6
NOV.												
06...	104	--	--	--	--	--	--	--	13	0	--	3.0
30...	140	8.5	240	40	3.2	.6	1.5	.5	--	--	2.6	3.2
JAN.												
11...	318	9.4	500	80	4.5	.6	1.8	.6	--	--	2.8	3.2
MAR.												
21...	501	7.6	790	80	6.1	.8	1.7	.7	--	--	2.4	3.2
APR.												
19...	1280	4.8	1200	60	4.6	.6	2.0	.7	--	--	2.6	2.8
MAY												
23...	319	7.6	200	120	2.8	.8	2.5	.4	--	--	1.0	2.2
JUNE												
27...	233	7.4	1100	10	5.5	.7	1.7	.4	18	0	.6	2.6
JULY												
25...	260	7.6	850	180	4.9	.8	1.5	.6	--	--	.6	2.8
SEP.												
07...	230	8.3	1100	170	5.7	.8	1.9	.6	21	0	2.8	2.6

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
18...	.0	.05	--	30	25	.04	13	2	.2	--	--
NOV.											
06...	--	--	--	--	--	--	16	6	--	--	7.2
30...	.1	.02	--	--	25	.03	11	3	.2	--	--
JAN.											
11...	.0	.05	--	--	29	.04	14	4	.2	--	--
MAR.											
21...	.1	.09	--	--	31	.04	19	5	.2	--	--
APR.											
19...	.1	.05	--	25	25	.03	14	3	.2	40	--
MAY											
23...	.1	.10	--	27	26	.04	11	0	.3	--	--
JUNE											
27...	.1	.60	--	32	31	.04	17	2	.2	--	--
JULY											
25...	.1	.10	--	37	29	.05	16	0	.2	--	--
SEP.											
07...	.0	--	.03	43	34	.06	18	0	.2	43	7.0

02374500 MURDER CREEK NEAR EVERGREEN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
02...	143	--	--	--	--	18.0	--
18...	--	12	0	31	6.5	19.5	8.3
NOV.							
06...	--	--	--	60	--	16.5	--
30...	--	10	0	33	6.7	11.0	10.6
DEC.							
18...	175	--	--	40	--	12.0	--
JAN.							
11...	--	12	0	36	6.6	6.0	12.6
29...	231	--	--	40	--	9.0	--
MAR.							
05...	656	--	--	40	--	6.0	--
21...	--	17	0	42	6.7	15.0	8.8
APR.							
19...	--	14	0	--	6.6	18.0	8.1
MAY							
12...	416	--		40	--	20.0	--
23...	--	16	0	28	6.6	21.0	7.4
JUNE							
18...	633	--	--	60	--	23.0	--
27...	--	--	--	45	6.9	23.0	7.5
JULY							
25...	--	20	0	43	6.8	25.5	7.1
30...	320	--	--	40	--	25.0	--
SEP.							
07...	--	--	--	--	--	24.5	7.4
10...	209	--	--	50	--	24.0	--

02376796 LITTLE ESCAMBIA CREEK BELOW CHAVERS CREEK, ALA.

LOCATION.--Lat 31°04'23", long 87°12'57", in SE¼SE¼ sec. 1, T. 1 N., R. 8 E., Escambia County, at left bank, 0.1 mile (0.2 km) downstream from Chavers Creek, 4 miles (6 km) northwest of Pollard, Ala., and 4.3 miles (6.9 km) upstream from U.S. Highway 31.

DRAINAGE AREA.--126 mi^2 (326 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1963 and 1965.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 31...	15	3	0	2.0	8	6	22	6.1	18.0
NOV. 28...	28	--	--	2.8	--	--	26	5.8	13.0
DEC. 18...	46	--	--	3.6	--	--	28	5.2	9.0
JAN. 25...	41	--	--	4.2	--	--	26	5.3	11.0
FEB. 27...	16	--	--	3.6	--	--	25	5.7	14.0
APR. 04...	48	--	--	1.6	--	--	20	5.6	17.0
FIELD ANALYSES									
MAY 03...	--	--	--	--	--	--	18	--	19.0
JUNE 07...	58	--	--	--	--	--	27	--	22.5
JULY 18...	13	--	--	--	--	--	27	--	26.0
SEP. 12...	25	--	--	--	--	--	25	--	20.0

02376797 UNNAMED TRIBUTARY TO LITTLE ESCAMBIA CREEK, POLLARD OIL FIELD, ALA.

LOCATION.--Lat 31°03'33", long 87°13'20", in SW¼SW¼ sec. 12, T. 1 N., R. 8 E., Escambia County, at upstream end of culvert on dirt road in Pollard Oil Field, 3.5 miles (5.6 km) northwest of Pollard, Ala.

DRAINAGE AREA.--0.25 mi^2 (0.65 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water year 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 31...	.01	0	0	510	200	200	1770	4.4	18.0
NOV. 28...	.60	--	--	430	--	--	910	4.6	--
DEC. 18...	.60	--	--	1200	--	--	4110	4.5	10.0
JAN. 25...	.60	--	--	400	--	--	1400	4.8	11.0
FEB. 27...	.60	--	--	200	--	--	977	5.1	15.0
APR. 04...	.65	--	--	300	--	--	1300	5.7	18.5
MAY 03...	.25	--	--	130	--	--	690	5.7	20.0
JUNE 07...	.12	--	--	250	--	--	880	5.0	25.0
29...	.10	--	--	480	--	--	1600	6.4	29.0
JULY 18...	.02	--	--	700	--	--	2720	4.1	29.0
SEP. 12...	.07	--	--	320	--	--	1190	4.8	27.0

02374790 LITTLE ESCAMBIA CREEK BELOW POLLARD OIL FIELD

LOCATION.--Lat 31°02'42", long 87°13'06", in SE¼SW¼ sec. 13, T. 1 N., R. 8 E., Escambia County, at left bank at bridge on county road, 2.1 miles (3.4 km) upstream from U.S. Highway 31, 2.2 miles (3.5 km) downstream from Chavers Creek, and 2.8 miles (4.5 km) northwest of Pollard, Ala.

DRAINAGE AREA.--129 mi^2 (334 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1963 and 1967.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 31...	17	3	0	22	9	7	93	5.7	17.0
NOV. 28...	29	--	--	17	--	--	77	5.4	13.0
DEC. 18...	48	--	--	13	--	--	65	5.2	9.5
JAN. 25...	43	--	--	12	--	--	57	5.2	11.0
FEB. 27...	18	--	--	11	--	--	49	5.5	14.0
APR. 04...	50	--	--	5.2	--	--	32	5.4	17.0
MAY 03...	23	--	--	6.4	--	--	45	5.9	19.0
JULY 18...	15	--	--	16	--	--	72	6.0	24.0
FIELD ANALYSES									
SEP. 12...	27	--	--	--	--	--	46	--	28.0

02374800 LITTLE ESCAMBIA CREEK NEAR POLLARD, ALA.

LOCATION.--Lat 31°01'14", long 87°12'25", in SW¼NW¼ sec. 30, T. 1 N., R. 9 E., Escambia County, at left bank at bridge on U.S. Highway 31, 2 miles (3 km) west of Pollard, and at mile 3.1 (5.0 km).

DRAINAGE AREA.--138 mi^2 (357 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 30...	19	2	0	18	12	11	82	5.8	18.0
NOV. 28...	30	--	--	16	--	--	71	5.4	13.0
DEC. 18...	50	--	--	11	--	--	60	5.1	9.5
JAN. 25...	45	--	--	11	--	--	55	5.3	11.0
FEB. 27...	20	--	--	11	--	--	49	5.7	12.0
APR. 04...	52	--	--	6.0	--	--	35	5.6	17.0
FIELD ANALYSES									
MAY 03...	25	--	--	--	--	--	45	--	19.0
JULY 18...	17	--	--	--	--	--	70	--	--

02376500 PERDIDO RIVER AT BARRINEAU PARK, FLA.

LOCATION.--Lat 30°41'25", long 87°26'25", in NW¼ sec. 23, T. 4 S., R. 6 E., Baldwin County, Ala., at gaging station, on right bank 25 ft (8 m) downstream from county highway bridge, 1,000 ft (305 m) downstream from Alligator Creek, 0.5 mile (0.8 km) southwest of Barrineau Park, and 27 miles (43 km) upstream from mouth.

DRAINAGE AREA.--394 mi^2 (1,020 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 18...	176	7.1	--	160	0	.9	.5	2.0	.5	--	--	1.0
NOV. 30...	298	8.4	--	--	30	1.1	.8	2.2	.3	--	--	3.6
JAN. 11...	692	9.7	--	110	80	1.9	.8	2.7	.5	5	0	4.6
MAR. 02...	402	7.2	--	130	30	1.0	.6	2.2	.3	--	--	1.8
21...	1270	7.3	--	270	50	.8	.5	2.0	.6	--	--	3.6
APR. 18...	731	6.7	--	260	40	1.1	.6	4.5	.4	7	0	2.2
MAY 23...	360	7.0	--	140	0	1.4	.6	2.9	.3	6	0	1.4
JUNE 18...	1/556	--	400	90	30	.7	.5	3.1	.5	2	0	.4
27...	439	8.1	--	420	10	1.8	.5	2.1	.4	--	--	2.0
JULY 26...	483	9.1	--	220	50	.5	.6	1.9	.4	2	0	2.2
SEP. 07...	857	9.3	--	320	50	1.0	.6	2.3	.3	--	--	4.7
26...	1/380	--	0	90	20	1.5	.5	2.2	.5	1	0	.0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 18...	3.2	.0	--	--	.02	--	18	17	.02	--	4
NOV. 30...	3.6	.2	--	--	.02	--	22	21	.03	--	6
JAN. 11...	3.2	.0	--	--	.00	--	28	25	.04	--	8
MAR. 02...	3.2	.1	--	--	.02	--	21	18	.03	--	5
21...	3.0	.1	--	--	.02	--	26	19	.04	--	4
APR. 18...	3.9	.1	--	--	.05	--	28	23	.04	--	5
MAY 23...	3.6	.1	--	--	.02	--	19	20	.03	--	6
JUNE 18...	3.5	.2	.44	.01	--	.020	30	18	.04	8	4
27...	3.8	.1	--	--	.2	--	24	22	.03	--	6
JULY 26...	3.2	.1	--	--	.07	--	24	19	.03	--	4
SEP. 07...	3.3	.1	--	--	--	--	--	22	.05	--	5
26...	4.2	.1	1.2	.01	--	.040	25	18	.03	4	6

1/ Daily mean discharge

02376500 PERDIDO RIVER AT BARRINEAU PARK, FLA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT.											
18...	1	--	--	--	--	--	--	--	--	--	--
NOV.											
30...	5	--	--	--	--	--	--	--	--	--	--
JAN.											
11...	4	--	5.3	--	--	--	--	--	--	--	--
MAR.											
02...	2	--	--	--	--	--	--	--	--	--	--
21...	3	--	--	--	--	--	--	--	--	--	--
APR.											
18...	0	20	5.4	--	--	--	--	--	--	--	--
MAY											
23...	1	42	5.8	--	--	--	--	--	--	--	--
JUNE											
18...	2	21	5.5	40	10	2.5	4.5	7.0	8	0	0
27...	3	--	--	--	--	--	--	--	--	--	--
JULY											
26...	3	--	5.3	--	--	--	--	--	--	--	--
SEP.											
07...	5	--	--	--	--	--	--	--	--	--	--
26...	5	20	5.9	55	5	4.0	1.5	5.5	4	0	50

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
18...	4	0	18	6.1	21.5	8.9
NOV.						
30...	2	0	25	5.4	13.0	9.7
JAN.						
11...	--	--	30	--	9.5	10.1
MAR.						
02...	2	0	22	5.6	14.0	9.7
21...	2	0	29	5.0	15.5	9.0
APR.						
18...	--	--	--	--	18.0	8.8
MAY						
23...	--	--	--	--	23.5	8.6
JUNE						
27...	4	0	24	5.5	22.5	7.8
JULY						
26...	--	--	23	--	23.5	7.8
SEP.						
07...	0	0	25	4.4	23.5	7.3

02400500 COOSA RIVER AT GADSDEN, ALA.

LOCATION.--Lat 34°00'27", long 85°59'52", in NE¼ sec. 10, T.12 S., R. 6 E., Etowah County, at gaging station near midstream pier of Etowah County Memorial Bridge on Forrest Avenue in Gadsden, 450 ft (140 m) downstream from Louisville & Nashville Railroad bridge, 1.5 miles (2.4 km) upstream from Big Wills Creek, and at mile 174.8 (281.2 km).

DRAINAGE AREA.--5,800 mi² (15,000 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1966-67 (partial-record station), August 1969 to September 1973 (discontinued). Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 30.5°C July 30-Aug. 2.

Period of record:
Water temperatures: (1962-71, 1972-73): Maximum, 31.5°C July 11, 12, 1970; minimum (1962-71), 2.0°C on several days in 1963, 1966 and 1970.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. No temperature data Dec. 17, Jan. 2-Feb. 20, Apr. 26-May 2 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 05...	3920	300	--	.07	.030	.50	.023
NOV. 09...	5180	--	--	.05	--	--	.19
DEC. 19...	25000	--	--	.2	--	--	.22
JAN. 23...	23000	--	320	.07	.000	.31	.14
MAR. 08...	8860	--	--	.2	--	--	.059
APR. 05...	17400	--	100	.5	.009	.22	.091
MAY 08...	15600	--	330	.1	.005	.21	.059
JUNE 20...	8420	--	--	.1	--	--	.070
JULY 25...	7500	--	--	.2	--	--	.059
AUG. 30...	11200	--	120	.05	.000	.42	.042

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)
OCT. 05...	90	.12	24	10000	7200	--
NOV. 09...	--	--	20	200	170	--
DEC. 19...	--	--	24	5300	1500	--
JAN. 23...	58	.08	29	1600	470	.00
MAR. 08...	--	--	28	1600	250	--
APR. 05...	51	.07	22	300	80	.00
MAY 08...	52	.07	7	3700	2100	.00
JUNE 20...	--	--	28	6400	800	--
JULY 25...	--	--	13	460	200	--
AUG. 30...	71	.10	6	250	50	.00

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 05...	9	1	0	19	.0	0
JAN. 23...	3	0	10	4	.0	10
APR. 05...	6	2	0	1	.1	10
MAY 08...	7	0	0	3	.4	0
AUG. 30...	2	<10	0	100	0	340

02400500 COOSA RIVER AT GADSDEN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.					
05...	--	150	7.0	23.0	6.8
NOV.					
09...	--	173	7.9	15.0	[illegible]
DEC.					
19...	--	89	7.8	10.0	10.4
JAN.					
23...	--	99	6.9	10.5	10.6
MAR.					
08...	--	100	6.9	15.0	7.1
09...	17600	125	--	--	--
APR.					
05...	--	60	7.3	14.5	8.9
MAY					
03...	19400	105	--	18.0	--
08...	--	61	7.0	18.5	9.0
JUNE					
20...	--	77	6.9	26.0	5.6
JULY					
12...	160	105	--	--	--
25...	--	106	7.1	29.5	6.1
AUG.					
30...	--	124	7.2	29.0	7.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.5	25.5	18.5	18.0	11.5	11.0	12.0	11.5	---	---	[illegible]	7.5
2	25.5	25.0	18.0	18.0	11.0	11.0	---	---	---	---	8.5	8.0
3	25.0	25.0	18.0	18.0	11.0	11.0	---	---	---	---	9.0	8.5
4	25.0	25.0	18.0	18.0	11.0	10.5	---	---	---	---	9.0	9.0
5	25.0	24.5	18.0	18.0	10.5	10.5	---	---	---	---	10.0	9.0
6	25.0	24.5	18.0	18.0	10.5	10.5	---	---	---	---	10.0	10.0
7	25.0	24.5	18.0	18.0	10.5	10.5	---	---	---	---	10.5	10.0
8	25.0	24.5	18.0	18.0	10.5	10.5	---	---	---	---	12.5	10.5
9	24.5	24.0	18.0	17.5	10.5	10.5	---	---	---	---	12.0	12.0
10	24.0	24.0	17.5	17.5	10.0	10.5	---	---	---	---	12.5	12.0
11	24.0	23.5	17.5	17.5	11.5	11.0	---	---	---	---	13.0	12.5
12	23.5	23.0	17.5	17.5	11.5	11.5	---	---	---	---	13.5	13.0
13	23.0	22.5	17.5	17.0	11.5	11.5	---	---	---	---	14.0	13.5
14	22.5	22.5	17.0	17.0	12.0	11.5	---	---	---	---	14.0	14.0
15	22.5	22.5	17.0	17.0	12.0	12.0	---	---	---	---	14.5	14.0
16	22.5	22.5	17.0	16.0	12.5	12.0	---	---	---	---	14.5	14.5
17	22.5	22.5	16.0	16.0	---	---	---	---	---	---	14.5	14.5
18	22.5	22.5	16.0	15.5	12.5	12.5	---	---	---	---	14.5	14.0
19	22.5	22.0	15.5	15.5	12.5	12.5	---	---	---	---	14.0	14.0
20	22.0	21.5	15.5	14.0	12.5	12.5	---	---	---	---	14.0	14.0
21	21.5	21.0	14.0	13.5	13.0	12.5	---	---	6.0	6.0	14.0	14.0
22	21.0	21.0	13.5	13.5	13.0	13.0	---	---	6.0	6.0	14.0	13.5
23	21.0	21.0	13.5	13.0	13.0	13.0	---	---	6.0	6.0	14.0	13.5
24	21.0	20.5	13.0	12.5	13.0	13.0	---	---	6.5	6.0	13.5	13.0
25	20.5	20.0	12.5	12.5	13.0	13.0	---	---	6.5	6.5	13.0	13.0
26	20.0	19.5	12.5	12.0	13.0	13.0	---	---	7.0	6.5	13.0	13.0
27	19.5	19.0	12.0	11.5	13.0	13.0	---	---	7.5	7.0	13.0	13.0
28	19.0	18.5	11.5	11.5	13.0	13.0	---	---	7.5	7.5	13.0	13.0
29	18.5	18.5	11.5	11.5	13.0	12.5	---	---	---	---	13.0	13.0
30	18.5	18.5	11.5	11.5	12.5	12.0	---	---	---	---	13.0	13.0
31	18.5	18.0	---	---	12.0	11.5	---	---	---	---	13.0	13.0
MONTH	26.5	18.0	18.5	11.5	13.0	10.5	---	---	---	---	14.5	7.5

02400100 COOSA RIVER AT GADSDEN, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	13.0	---	---	22.5	22.0	28.0	28.0	30.5	30.5	29.0	28.0
2	13.0	13.0	---	---	23.0	22.5	28.0	28.0	30.5	30.5	30.0	29.0
3	13.0	13.0	18.0	18.0	23.0	23.0	28.0	28.0	30.5	30.0	30.0	29.0
4	13.5	13.0	18.0	18.0	23.5	23.0	29.0	28.0	30.0	30.0	30.0	28.0
5	13.5	13.5	18.0	18.0	24.0	23.5	29.0	29.0	30.0	30.0	30.0	28.0
6	13.5	13.5	18.0	18.0	24.0	24.0	29.0	29.0	30.0	30.0	29.0	28.0
7	13.5	13.5	18.0	18.0	24.5	24.0	29.0	29.0	30.0	30.0	28.0	28.0
8	13.5	13.5	18.0	18.0	24.5	24.5	29.0	29.0	30.0	28.5	29.0	28.0
9	13.5	13.0	18.0	18.0	24.5	24.5	29.0	29.0	28.5	28.5	29.0	28.0
10	13.0	12.0	18.5	18.0	24.5	24.5	29.0	29.0	29.0	28.5	29.0	28.0
11	12.0	12.0	19.0	18.5	24.5	24.5	29.5	29.0	29.0	29.0	30.0	28.0
12	12.0	12.0	19.0	19.0	24.5	24.5	29.5	29.5	29.0	29.0	30.0	28.0
13	12.0	12.0	19.5	19.0	24.5	24.5	29.5	29.5	29.0	29.0	28.5	28.0
14	12.0	12.0	19.5	19.5	24.5	24.5	29.5	29.0	29.0	29.0	29.5	28.0
15	12.5	12.0	19.5	19.5	24.5	24.5	29.5	29.0	29.0	29.0	29.0	28.0
16	12.5	12.5	19.5	19.5	25.0	24.5	29.5	29.0	29.0	29.0	30.0	28.0
17	12.5	12.5	19.5	19.5	25.0	25.0	29.5	29.0	29.0	29.0	30.0	28.0
18	13.0	12.5	19.5	19.5	26.0	25.0	29.5	29.0	29.0	29.0	30.0	28.0
19	14.0	13.0	19.5	19.5	26.0	26.0	29.5	29.0	29.0	28.5	30.0	28.0
20	14.5	14.0	20.5	19.5	26.5	26.0	29.0	29.0	28.5	28.0	30.0	28.0
21	16.0	14.5	20.5	20.5	26.5	26.5	29.0	29.0	29.0	28.0	28.0	25.0
22	16.5	16.0	20.5	20.5	27.0	26.5	29.5	29.0	29.0	28.0	25.5	25.0
23	17.0	16.5	20.5	20.5	27.0	27.0	29.5	29.5	29.0	28.0	25.5	25.0
24	18.0	17.0	20.5	20.5	27.5	27.0	30.0	29.5	30.0	28.0	26.0	25.0
25	18.0	18.0	20.5	20.5	27.5	27.5	30.0	30.0	28.0	27.0	25.5	25.0
26	---	---	20.5	20.5	27.5	27.5	30.0	30.0	30.0	27.0	26.0	25.0
27	---	---	21.0	20.5	27.5	27.5	30.0	30.0	30.0	28.0	26.0	25.0
28	---	---	21.0	21.0	28.0	27.5	30.0	30.0	29.0	28.0	26.5	25.0
29	---	---	21.0	21.0	28.0	27.5	30.0	30.0	29.0	28.0	25.5	25.0
30	---	---	21.5	21.0	28.0	28.0	30.5	30.0	29.0	28.0	25.0	25.0
31	---	---	22.0	21.0	---	---	30.5	30.5	29.0	28.0	---	---
MONTH	---	---	22.0	18.0	28.0	22.0	30.5	28.0	30.5	27.0	30.0	25.0

[illegible] BIG WILLS CREEK NEAR CRUDUP, ALA.

LOCATION.--Lat 34°03'13", long 86°02'13", in NE¼ sec. 4, T. 11 S., R. 6 E., Etowah County, at gaging station, near right bank on upstream side of bridge on county road, 1 mile (1.6 km) upstream from Fisher Creek, 2 miles (3.2 km) west of Crudup, and at mile 25.0 (40.2 km).

DRAINAGE AREA.--185 mi² (479 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to June 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1963, 1966, and 1967.

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG.											
03...	100	7.1	280	30	22	8.7	3.1	2.0	--	--	7.2
30...	58	7.9	220	43	33	11	6.3	1.8	--	--	6.8
OCT.											
04...	63	7.2	990	100	35	10	5.6	2.7	--	--	7.0
NOV.											
09...	99	7.2	320	60	37	11	7.9	2.3	--	--	7.2
DEC.											
20...	353	3.5	50	20	33	6.6	2.3	1.6	124	0	8.2
JAN.											
26...	1310	3.9	290	20	22	4.2	1.6	1.6	--	--	6.0
MAR.											
06...	1190	3.3	--	0	26	3.9	1.8	1.7	--	--	6.0
APR.											
05...	535	6.1	40	10	29	5.8	3.0	1.0	114	0	4.2
MAY											
08...	397	.8	60	0	32	7.1	2.0	.9	125	0	4.2
JUNE											
22...	200	6.3	120	10	30	7.5	2.2	1.1	130	0	4.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
AUG.											
03...	6.2	.1	.00	133	127	.18	110	4	.1	--	--
30...	7.0	.2	.2	166	149	.23	130	3	.3	--	--
OCT.											
04...	7.2	.2	.2	--	168	.30	130	11	.2	--	--
NOV.											
09...	9.6	.3	.00	161	162	.22	140	7	.3	--	--
DEC.											
20...	3.6	.2	.5	--	122	.17	110	9	.1	--	7.2
JAN.											
26...	2.0	.4	.03	--	86	.12	73	4	.1	--	--
MAR.											
06...	2.4	.2	.2	109	91	.15	81	7	.1	--	--
APR.											
05...	3.0	.2	.02	--	108	.15	97	4	.1	--	7.0
MAY											
08...	2.0	.1	1.0	--	116	.16	110	0	.1	220	7.6
JUNE											
22...	2.0	.1	.4	138	122	.19	110	6	.1	--	7.5

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.						
03...	130	0	230	7.6	23.0	7.2
30...	155	0	270	7.7	21.5	7.6
OCT.						
04...	137	0	263	7.4	18.0	8.3
NOV.						
09...	162	0	319	8.3	12.5	9.3
DEC.						
20...	--	--	240	--	8.5	10.0
JAN.						
26...	76	0	136	7.6	10.5	10.6
MAR.						
06...	90	0	171	7.5	15.0	10.4
APR.						
05...	--	--	200	--	13.0	10.2
MAY						
08...	--	--	--	--	16.0	9.0
JUNE						
22...	--	--	226	--	20.0	8.0

02401390 BIG CANOE CREEK AT ASHVILLE, ALA.

LOCATION.--Lat 33°50'23", long 86°15'40", in SW¼SE¼ sec. 6, T. 14 S., R. 4 E., St. Clair County, at gaging station on downstream side of bridge on U.S. Highway 231, 0.5 mile (0.8 km) west northwest of Ashville, and 1.7 miles (2.7 km) downstream from Muckleroy Creek.

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
04...	44	6.9	2000	40	34	6.4	2.0	2.1	--	--	7.6	4.8
05...	46	--	--	--	--	--	--	--	106	0	--	2.4
NOV.												
09...	175	6.3	170	30	25	5.8	3.1	1.8	--	--	9.6	3.6
DEC.												
20...	343	5.9	50	10	19	4.0	1.8	1.0	--	--	6.6	2.4
JAN.												
24...	709	6.6	160	20	15	3.1	1.4	.9	--	--	5.8	1.6
MAR.												
06...	478	6.1	230	20	18	3.4	1.9	.9	--	--	6.0	2.4
APR.												
05...	420	6.5	80	10	20	3.9	2.0	.9	--	--	4.4	2.0
MAY												
08...	270	5.9	10	0	24	5.1	1.7	.8	93	0	4.4	2.2
JUNE												
22...	250	6.9	210	10	23	4.8	1.9	1.0	--	--	3.6	1.8
JULY												
25...	37	6.3	70	30	42	6.5	2.4	1.1	122	0	4.6	2.1
AUG.												
30...	33 --	6.0	90	50	35	7.5	2.2	1.1	141	0	7.2	2.3

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT.											
04...	.1	.02	--	--	116	.16	110	23	.1	--	--
05...	--	--	--	--	--	--	96	9	--	180	7.3
NOV.											
09...	.2	.02	--	108	104	.15	87	5	.1	--	--
DEC.											
20...	.1	.02	--	80	76	.11	64	5	.1	--	--
JAN.											
24...	.4	.20	--	--	64	.09	51	5	.1	--	--
MAR.											
06...	.2	.20	--	65	76	.09	59	3	.1	--	--
APR.											
05...	.2	.70	--	78	76	.11	66	7	.1	--	--
MAY											
08...	.1	.80	--	110	94	.15	81	5	.1	190	7.1
JUNE											
22...	.1	.90	--	96	82	.13	77	2	.1	--	--
JULY											
25...	.1	--	.08	--	124	.16	130	32	.1	210	7.5
AUG.											
30...	.1	--	.08	132	131	.18	120	3	.1	242	7.6

02401390 BIG CANOE CREEK AT ASHVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	--	105	0	224	7.4	18.0	9.3
05...	46	--	--	180	--	18.5	--
NOV.							
08...	256	--	--	--	--	15.0	--
09...	--	90	0	122	7.5	14.0	8.9
DEC.							
20...	--	72	0	145	7.7	9.0	11.2
27...	274	--	--	140	--	11.0	--
JAN.							
24...	--	57	0	87	7.1	9.0	12.6
FEB.							
23...	181	--	--	150	--	9.5	--
MAR.							
06...	--	69	0	134	7.7	15.0	8.9
30...	352	--	--	53	--	14.0	--
APR.							
05...	--	72	0	136	7.5	13.0	10.0
MAY							
08...	--	--	--	--	--	16.0	9.1
JUNE							
06...	144	--	--	160	--	22.0	--
22...	--	92	0	160	7.6	22.5	7.9
JULY							
13...	102	--	--	145	--	24.0	--
25...	--	--	--	--	--	26.5	7.0
AUG.							
30...	--	--	--	--	--	24.0	7.2
SEP.							
26...	26	--	--	--	--	22.5	--

02407000 COOSA RIVER AT CHILDERSBURG, ALA.

LOCATION.--Lat 33°17'30", long 86°21'50", in NE¼ sec. 18, T. 20 S., R. 3 E., Shelby County, at gaging station near right bank on downstream side of Central of Georgia Railway bridge, 700 ft (213 m) upstream from bridge on State Highway 38, 0.5 mile (0.8 km) downstream from Tallaseehatchee Creek, 1 mile (1.6 km) northwest of Childersburg, and at mile 86.3 (138.8 km).

DRAINAGE AREA.--8,390 mi^2 (21,700 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-68 (partial-record station), August 1969 to September 1973 (discontinued). Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 29.0°C Aug. 3-4, 7-9.

Period of record:
Water temperatures: Maximum, 36.0°C July 6, 1969; minimum (1962-72), 3.0°C Jan. 28-30, 1963.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965. Streamflow regulated by upstream reservoirs and hydroelectric plants. No temperature data Dec. 18-Jan. 28 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.							
06...	10000	310	--	.2	.009	.29	.033
NOV.							
07...	10000	--	--	.3	--	--	.11
DEC.							
18...	34500	--	--	.2	--	--	.15
JAN.							
23...	33000	--	230	.09	.012	.32	.10
MAR.							
09...	15500	--	--	.2	--	--	.075
APR.							
05...	31600	--	110	.5	.006	.24	.10
MAY							
09...	49400	--	360	.2	.006	.22	.12
JUNE							
19...	20600	--	--	.3	--	--	.10
JULY							
24...	31000	--	--	.1	--	--	.070
AUG.							
28...	32100	--	80	.1	.000	.23	.050

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)
OCT.						
06...	95	.13	33	11000	20	.02
NOV.						
07...	--	--	24	540	83	--
DEC.						
18...	--	--	29	2200	2000	--
JAN.						
23...	50	.07	17	2800	960	.00
MAR.						
09...	--	--	22	1900	430	--
APR.						
05...	53	.07	22	45000	93	.00
MAY						
09...	57	.08	25	19600	18400	.00
JUNE						
19...	--	--	24	7600	1200	--
JULY						
24...	--	--	13	--	210	--
AUG.						
28...	84	.11	8	420	60	.00

02407000 COOSA RIVER AT CHILDERSBURG, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.						
06...	9	0	0	6	.0	10
JAN.						
23...	3	0	10	1	.0	20
APR.						
05...	7	2	0	1	.0	30
MAY						
09...	4	1	0	1	.6	10
AUG.						
28...	2	<10	0	50	.0	130

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
06...	--	--	160	7.7	24.0	4.7
NOV.						
07...	--	--	163	7.4	17.5	5.9
DEC.						
18...	--	--	129	7.4	9.5	10.4
JAN.						
23...	--	--	100	6.7	8.0	11.8
MAR.						
09...	--	--	136	7.4	12.0	11.0
APR.						
05...	41	0	95	7.4	15.0	9.0
MAY						
09...	--	--	69	7.0	19.0	8.6
JUNE						
19...	--	--	108	6.9	26.0	9.8
JULY						
24...	--	--	120	7.0	29.0	4.7
AUG.						
28...	--	--	124	7.2	28.0	5.1

02407000 COOSA RIVER AT CHILDERSBURG, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	23.0	18.0	17.5	14.5	14.0	---	---	8.0	8.0	7.5	7.5
2	23.0	22.5	17.5	17.5	14.0	14.0	---	---	8.5	8.0	7.5	7.5
3	23.0	22.5	17.5	17.5	14.0	14.0	---	---	8.0	8.0	7.5	7.5
4	22.5	22.0	17.5	17.5	14.0	14.0	---	---	8.0	8.0	8.0	7.5
5	23.0	22.5	17.5	17.5	14.0	14.0	---	---	8.0	8.0	8.0	8.0
6	23.0	23.0	17.5	17.0	14.5	14.0	---	---	8.0	8.0	8.0	8.0
7	23.0	22.5	17.5	17.0	14.0	14.0	---	---	8.0	8.0	8.0	8.0
8	22.5	22.0	17.0	17.0	14.0	14.0	---	---	8.0	8.0	8.5	8.0
9	22.0	21.5	17.0	17.0	14.0	14.0	---	---	8.0	8.0	9.0	8.5
10	21.5	21.0	17.0	17.0	14.5	14.0	---	---	8.0	8.0	10.0	9.0
11	21.5	21.0	17.0	16.5	14.5	14.5	---	---	8.0	7.5	10.0	10.0
12	21.5	21.5	16.5	16.5	14.5	14.5	---	---	7.5	7.5	10.5	10.0
13	21.5	21.0	16.5	16.5	14.5	14.5	---	---	7.5	7.5	11.0	10.5
14	21.0	21.0	17.0	16.5	14.5	14.5	---	---	7.5	7.5	11.5	11.0
15	21.0	20.5	16.5	16.0	14.5	14.5	---	---	7.5	7.5	11.5	11.5
16	21.0	20.5	16.0	16.0	14.5	14.5	---	---	7.5	7.5	12.0	11.5
17	21.0	21.0	16.0	16.0	14.5	14.0	---	---	7.5	7.5	12.0	12.0
18	21.0	21.0	16.0	16.0	---	---	---	---	7.5	6.5	13.0	12.0
19	21.0	20.5	16.0	15.5	---	---	---	---	7.0	6.5	13.0	13.0
20	20.5	20.0	15.5	15.5	---	---	---	---	7.0	6.5	13.0	13.0
21	20.0	19.5	15.5	15.5	---	---	---	---	7.0	6.5	13.0	12.5
22	19.5	19.0	15.5	15.0	---	---	---	---	6.5	6.5	12.5	12.5
23	19.0	18.5	15.0	15.0	---	---	---	---	7.0	6.5	12.5	12.0
24	18.5	18.5	15.0	15.0	---	---	---	---	7.0	7.0	13.0	12.5
25	19.0	18.5	15.0	15.0	---	---	---	---	7.0	7.0	13.0	13.0
26	18.5	18.5	15.0	14.5	---	---	---	---	7.5	7.0	13.0	13.0
27	18.5	18.0	14.5	14.5	---	---	---	---	7.5	7.5	13.0	13.0
28	18.0	18.0	14.5	14.5	---	---	---	---	7.5	7.5	13.0	13.0
29	18.0	18.0	14.5	14.5	---	---	8.0	8.0	---	---	13.0	13.0
30	18.0	18.0	14.5	14.5	---	---	8.0	8.0	---	---	13.0	13.0
31	18.0	18.0	---	---	---	---	8.0	8.0	---	---	13.0	13.0
MONTH	23.5	18.0	18.0	14.5	---	---	---	---	8.5	6.5	13.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.0	17.5	17.5	22.0	22.0	26.0	26.0	28.0	27.5	27.5	27.5
2	14.0	14.0	17.5	17.5	22.5	22.0	26.5	25.0	28.0	27.0	27.5	27.5
3	14.5	14.0	17.5	17.5	22.5	22.5	26.5	26.0	29.0	28.0	27.5	27.5
4	14.5	14.5	18.0	17.5	22.5	22.5	26.5	26.0	29.0	28.5	27.5	26.5
5	15.0	14.5	18.0	18.0	23.0	22.5	26.5	26.0	28.5	28.5	27.0	26.5
6	15.0	15.0	18.0	18.0	23.0	23.0	26.5	26.0	28.5	28.0	27.0	26.5
7	15.0	15.0	18.0	18.0	24.0	23.0	26.5	25.5	29.0	26.0	27.0	26.5
8	15.0	15.0	18.0	18.0	24.0	24.0	26.5	26.0	29.0	28.5	27.0	26.5
9	15.0	15.0	19.5	18.0	24.5	24.0	26.0	25.5	29.0	28.5	27.0	27.0
10	15.0	14.5	19.5	19.0	24.5	24.5	27.5	26.0	28.5	28.0	27.0	26.5
11	14.5	14.5	20.0	19.5	24.5	24.5	27.5	27.0	28.5	28.0	27.0	26.5
12	14.5	14.0	20.0	20.0	24.5	24.5	27.5	27.0	28.5	28.5	27.0	26.5
13	14.0	14.0	20.5	20.0	24.5	24.5	27.5	27.0	28.5	28.0	27.0	27.0
14	14.0	14.0	20.5	20.5	24.5	24.5	27.5	27.0	28.5	27.5	27.0	26.0
15	14.5	14.0	20.5	20.5	24.5	24.5	27.5	27.0	28.5	27.5	26.5	26.0
16	14.5	14.5	20.5	20.5	24.5	24.5	27.5	27.0	28.0	27.5	26.5	26.5
17	14.5	14.5	20.5	20.5	24.5	24.5	27.5	27.0	28.0	27.5	26.5	26.0
18	15.0	14.5	20.5	20.5	25.0	24.5	27.5	27.0	28.0	27.5	26.0	26.0
19	16.0	15.0	20.5	20.0	25.0	24.5	27.5	27.0	28.0	27.5	26.0	25.5
20	16.5	16.0	20.5	20.5	26.0	25.0	27.5	26.5	28.5	28.0	25.5	25.5
21	17.0	16.5	20.5	20.5	26.0	25.5	28.0	27.0	28.5	28.0	26.0	25.5
22	17.0	17.0	20.5	20.5	26.0	25.5	28.0	27.5	28.0	27.5	26.0	25.5
23	17.0	17.0	20.5	20.5	26.0	26.0	28.0	27.5	28.0	27.5	26.0	25.5
24	17.0	17.0	21.5	20.5	26.0	25.5	28.0	27.5	28.0	27.5	26.0	25.5
25	17.0	17.0	21.5	21.5	26.5	26.0	28.0	27.5	27.5	27.0	26.0	25.5
26	17.5	17.0	21.5	21.5	26.5	25.5	28.0	27.0	27.5	27.5	25.5	25.5
27	17.5	17.5	21.5	21.5	26.5	25.5	28.0	27.5	27.5	27.0	25.5	25.0
28	17.5	17.5	21.5	21.5	26.5	25.5	28.0	27.5	27.5	27.0	25.0	24.5
29	17.5	17.5	21.5	21.5	26.0	25.0	28.0	27.5	27.5	27.0	25.0	24.5
30	17.5	17.5	22.0	21.5	26.5	25.5	28.0	27.5	27.5	27.0	25.0	24.5
31	---	---	22.0	22.0	---	---	28.0	27.5	27.5	27.0	---	---
MONTH	17.5	13.0	22.0	17.5	26.5	22.0	28.0	25.0	29.0	26.0	27.5	24.5

02408500 HATCHET CREEK NEAR ROCKFORD, ALA.

LOCATION.--Lat 32°56'42", long 86°13'06", in NW¼ sec. 31, T. 23 N., R. 19 E., Coosa County, at gaging station near left bank on downstream side of county road bridge, 1 mile (1.6 km) downstream from U.S. Highway 231, 1.5 miles (2.4 km) downstream from Socapatoy Creek, and 4 miles (6 km) north of Rockford.

DRAINAGE AREA.--244 mi^2 (632 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
06...	75	11	330	30	5.5	1.9	2.6	1.1	--	--	3.8	1.6
NOV.												
07...	121	12	350	10	3.9	1.6	2.7	1.4	--	--	3.0	2.2
DEC.												
22...	1320	9.4	140	20	2.6	1.2	2.5	.8	--	--	3.4	1.8
JAN.												
26...	810	9.9	300	20	2.7	.9	1.7	.7	6	3	3.0	1.0
MAR.												
07...	473	11	260	10	2.2	.9	2.2	.8	--	--	2.2	1.6
APR.												
06...	767	6.3	200	10	2.4	.8	2.2	.7	--	--	2.2	1.4
MAY												
09...	1850	3.8	630	30	2.0	.6	1.0	1.1	--	--	2.4	.8
JUNE												
22...	545	11	340	30	2.0	.9	2.1	.8	10	0	1.6	1.4
JULY												
27...	321	11	610	30	2.5	.9	2.3	1.2	--	--	2.4	1.2
AUG.												
29...	140	13	240	20	3.2	1.0	2.7	.9	18	0	2.9	1.4

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
06...	.0	.02	--	--	41	.06	21	0	.2	--	--
NOV.											
07...	.1	.02	--	39	36	.05	16	1	.3	--	--
DEC.											
22...	.1	.02	--	27	28	.04	12	2	.3	--	--
JAN.											
26...	.3	.02	--	--	24	.03	10	0	.2	--	--
MAR.											
07...	.2	.20	--	26	29	.04	12	2	.3	--	--
APR.											
06...	.2	.07	--	23	--	.03	9	--	.3	--	--
MAY											
09...	.1	.40	--	19	18	.03	8	2	.2	24	--
JUNE											
22...	.1	.70	--	31	28	.04	9	1	.3	--	6.9
JULY											
27...	.1	.20	--	30	28	.04	10	0	.3	--	--
AUG.											
29...	.1	--	.02	37	34	.05	12	0	.3	38	7.3

02408500 HATCHET CREEK NEAR ROCKFORD, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
02...	109	--	--	40	--	19.0	--
06...	--	17	0	53	6.4	18.5	8.7
NOV.							
07...	--	18	0	47	7.6	15.0	9.8
07...	93	--	--	40	--	14.0	--
DEC.							
18...	484	--	--	40	--	--	--
22...	--	12	0	32	7.2	9.5	12.0
JAN.							
26...	--	--	--	21	6.8	8.0	13.4
29...	555	--	--	45	--	7.5	--
MAR.							
07...	506	--	--	32	--	--	--
07...	--	12	0	32	7.0	16.0	12.8
APR.							
06...	--	14	0	--	6.3	15.0	11.4
MAY							
09...	--	8	0	--	6.6	18.0	11.2
18...	449	--	--	40	--	14.0	--
JUNE							
22...	--	--	--	31	--	24.0	10.4
JULY							
13...	236	--	--	40	--	24.0	--
27...	--	12	0	31	7.0	24.0	7.5
AUG.							
16...	241	--	--	40	--	25.0	--
29...	--	--	--	--	--	27.0	9.0
SEP.							
18...	126	--	--	40	--	23.5	--

02411000 COOSA RIVER AT JORDAN DAM NEAR WETUMPKA, ALA.

LOCATION.--Lat 32°36'50", long 86°15'18", in SE¼ sec. 22, T. 19 N., R. 18 E., Elmore County, at gaging station on right bank 0.5 mile (0.8 km) downstream from Jordan Dam, 4 miles (6 km) upstream from Corn Creek, 5.5 miles (8.8 km) northwest of Wetumpka, and at mile 18.6 (29.9 km).

DRAINAGE AREA.--10,200 mi^2 (26,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
06...	100	2.6	60	60	16	5.3	8.0	2.0	--	--	8.4	7.6
NOV.												
07...	30100	2.3	20	4	15	5.2	8.9	2.0	--	--	8.4	7.8
DEC.												
22...	20800	5.2	110	10	14	4.5	8.3	2.2	--	--	11	6.8
JAN.												
26...	27400	5.0	350	30	9.0	3.2	3.0	1.3	--	--	7.0	3.0
MAR.												
07...	32100	7.3	230	20	12	2.4	4.1	1.2	--	--	6.6	4.2
APR.												
09...	44300	5.6	830	10	8.6	2.5	2.7	1.4	--	--	5.0	2.4
MAY												
10...	67800	4.1	250	5	9.9	2.6	2.8	1.1	--	--	5.4	2.4
JUNE												
20...	21300	4.8	180	0	8.3	2.7	3.2	1.3	30	2	4.4	3.2
JULY												
26...	12200	4.0	40	30	11	3.7	4.1	1.6	--	--	6.0	3.8
AUG.												
28...	8360	3.6	40	10	12	3.4	4.4	1.4	50	0	6.4	4.2

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
06...	.1	.07	--	80	86	.11	62	2	.4	--	--
NOV.											
07...	.2	.20	--	--	84	.11	59	6	.5	--	--
DEC.											
22...	.2	.02	--	79	82	.11	54	4	.5	--	--
JAN.											
26...	.4	.02	--	--	50	.07	36	6	.2	--	--
MAR.											
07...	.2	.05	--	55	62	.07	40	1	.3	--	--
APR.											
09...	.2	.40	--	42	47	.06	32	6	.2	--	--
MAY											
10...	.1	.04	--	--	47	.06	35	6	.2	78	--
JUNE											
20...	.1	.60	--	49	46	.07	32	8	.2	--	8.6
JULY											
26...	.2	.07	--	56	59	.08	43	4	.3	--	--
AUG.											
28...	.1	--	.01	67	60	.09	44	3	.3	108	7.4

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
06...	68	0	152	7.7	25.0	7.6
NOV.						
07...	66	0	153	7.3	17.5	7.7
DEC.						
22...	61	0	144	6.9	12.5	12.8
JAN.						
26...	37	0	67	7.1	8.5	13.6
MAR.						
07...	48	0	118	7.3	12.5	12.4
APR.						
09...	40	0	54	6.7	15.5	10.0
MAY						
10...	36	0	--	7.7	22.0	10.9
JUNE						
20...	--	--	83	--	33.0	12.8
JULY						
26...	48	0	108	7.7	29.0	7.2
AUG.						
28...	--	--	--	--	29.5	6.1

02412000 TALLAPOOSA RIVER NEAR HEFLIN, ALA.

LOCATION.--Lat 33°37'22", long 85°31'20", in NW¼ sec. 20, T 16 S., R. 11 E., Cleburne County, at gaging station on right bank 5 ft (1.5 m) downstream from county road bridge, 2.2 miles (3.5 km) upstream from Cane Creek, 4 miles (6 km) southeast of Heflin, and at mile 186.6 (300.2 km).

DRAINAGE AREA.--444 mi² (1,150 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-66, 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 03...	195	1800	--	.2	.006	.22	.003	34	.05	14
NOV. 08...	549	--	--	.2	--	--	.12	--	--	14
DEC. 19...	591	--	--	.2	--	--	.049	--	--	21
JAN. 24...	2810	--	820	.02	.006	.46	.12	18	.02	15
MAR. 08...	1220	--	--	.1	--	--	.019	--	--	11
APR. 04...	1180	--	190	.3	.003	.08	.036	22	.03	22
MAY 08...	1610	--	1400	.3	.000	.43	.12	14	.02	21
JUNE 19...	638	--	--	.2	--	--	.14	--	--	18
JULY 24...	419	--	--	.2	--	--	.039	--	--	15
AUG. 29...	236	--	430	.2	.000	.17	.026	33	.04	3

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 03...	740	140	.01	3	0	0	6	.0	0
NOV. 08...	1200	760	--	--	--	--	--	--	--
DEC. 19...	1100	580	--	--	--	--	--	--	--
JAN. 24...	2000	290	.00	6	0	10	8	.0	10
MAR. 08...	420	60	--	--	--	--	--	--	--
APR. 04...	480	94	.00	7	0	0	1	.0	0
MAY 08...	600	450	.00	12	1	0	3	.0	0
JUNE 19...	4000	800	--	--	--	--	--	--	--
JULY 24...	4000	800	--	--	--	--	--	--	--
AUG. 29...	36	28	.00	0	<10	0	100	.0	530

02412000 TALLAPOOSA RIVER NEAR HEFLIN, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
03...	--	--	--	30	7.1	19.0	8.5
04...	143	--	--	60	--	17.0	--
NOV.							
08...	--	--	--	60	--	13.5	--
DEC.							
19...	--	--	--	35	7.6	6.5	13.0
JAN.							
24...	--	--	--	27	6.9	7.0	12.5
31...	826	--	--	38	--	5.0	--
MAR.							
06...	750	--	--	60	--	--	--
08...	--	--	--	30	7.3	16.0	10.9
APR.							
04...	--	12	0	30	7.2	14.5	10.9
MAY							
08...	--	--	--	20	7.3	16.5	9.8
17...	865	--	--	60	--	15.0	--
JUNE							
19...	--	--	--	60	6.9	23.0	9.5
25...	650	--	--	38	--	21.5	--
JULY							
24...	--	--	--	38	6.8	26.0	8.4
AUG.							
14...	730	--	--	60	--	24.5	--
29...	--	--	--	35	6.7	23.0	8.6
SEP.							
19...	1260	--	--	60	--	20.0	--

02414500 TALLAPOOSA RIVER AT WADLEY, ALA.

LOCATION.--Lat 33°07'00", long 85°33'39", in SW¼ sec. 12, T. 22 S., R. 10 E., Randolph County, at gaging station on left bank 50 ft (15m) upstream from bridge on State Highway 22, 1 mile (1.6 km) downstream from Beaver Dam Creek, and at mile 125.3 (201.6 km).

DRAINAGE AREA.--1,660 mi^2 (4,300 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 05...	676	780	--	.2	.003	.22	.026	42	.06	25
NOV. 08...	2150	--	--	.1	--	--	.13	--	--	9
DEC. 19...	4400	--	--	.2	--	--	.19	--	--	17
JAN. 23...	9980	--	910	.02	.003	.49	.19	21	.03	24
MAR. 08...	3560	--	--	.1	--	--	.023	--	--	11
APR. 06...	5450	--	180	.4	.003	.12	.052	24	.03	20
MAY 08...	7510	--	1700	.2	.000	.66	.20	18	.02	10
JUNE 19...	3440	--	--	.3	--	--	.11	--	--	32
JULY 24...	1400	--	--	.2	--	--	.046	--	--	22
AUG. 29...	1060	430	--	.2	.000	.15	.003	26	.04	3

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 05...	1100	370	.02	5	1	0	5	.0	0
NOV. 08...	1900	250	--	--	--	--	--	--	--
DEC. 19...	1900	1000	--	--	--	--	--	--	--
JAN. 23...	2200	220	.00	3	0	10	5	.0	20
MAR. 08...	1400	190	--	--	--	--	--	--	--
APR. 06...	1200	150	.00	0	0	0	0	.0	0
MAY 08...	8000	3100	.00	10	0	0	2	.0	10
JUNE 19...	10400	1200	--	--	--	--	--	--	--
JULY 24...	860	75	--	--	--	--	--	--	--
AUG. 29...	56	20	.00	1	<10	0	<50	.0	30

02414500 TALLAPOOSA RIVER AT WADLEY, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	670	--	--	60	--	22.0	--
05...	--	--	--	52	6.9	23.0	9.6
NOV.							
08...	--	--	--	61	7.9	15.5	9.9
DEC.							
19...	--	--	--	37	6.6	7.5	13.2
JAN.							
23...	--	--	--	26	7.0	10.0	12.0
30...	3820	--	--	60	--	7.0	--
MAR.							
08...	--	--	--	31	7.6	17.5	12.1
APR.							
06...	--	16	0	30	7.6	16.5	11.2
MAY							
08...	--	--	--	22	6.5	17.0	9.9
16...	3820	--	--	60	--	10.0	--
JUNE							
19...	--	--	--	36	7.3	25.0	10.0
25...	2570	--	--	60	--	26.5	--
JULY							
24...	--	--	--	33	6.0	29.5	8.1
AUG.							
16...	2070	--	--	60	--	26.5	--
29...	--	--	--	33	7.2	25.5	8.8
SEP.							
19...	951	--	--	60	--	23.5	--

02418500 TALLAPOOSA RIVER BELOW TALLASSEE, ALA.

LOCATION.--Lat 32°30'45", long 85°53'21", in SE¼ sec. 30, T. 18 N., R. 22 E., Tallapoosa County, at gaging station on left bank, 1.5 miles (2.4 km) downstream from Benjamin Fitzpatrick Highway bridge and Thurlow Dam at Tallassee, 3.5 miles (5.6 km) upstream from Uphapee Creek, and at mile 48.1 (77.4 km).

DRAINAGE AREA.--3,320 mi² (8,600 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 03...	5640	540	--	.05	.001	.26	.000	32	.04	30
NOV. 08...	30	--	--	.4	--	--	.095	--	--	25
DEC. 20...	7770	--	--	.1	--	--	.065	--	--	23
JAN. 25...	10500	--	610	.05	.012	.20	.050	31	.04	26
MAR. 07...	7590	--	--	.2	--	--	.023	--	--	11
APR. 09...	19500	--	60	.3	.006	.15	.062	21	.03	22
MAY 10...	26000	--	250	.2	.000	.07	.020	16	.02	7
JUNE 21...	7800	--	--	.2	--	--	.020	--	--	31
JULY 26...	7800	--	--	.2	--	--	.020	--	--	18
AUG. 27...	8200	--	160	.09	.000	.12	.055	37	.05	24

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 03...	1600	14	.01	5	0	0	6	.1	0
NOV. 08...	6500	1300	--	--	--	--	--	--	--
DEC. 20...	690	170	.00	--	--	--	--	--	--
JAN. 25...	660	240	.00	4	0	0	1	.0	0
MAR. 07...	1500	210	--	--	--	--	--	--	--
APR. 09...	550	260	.00	5	0	0	2	.0	0
MAY 10...	670	600	.00	2	1	0	1	.0	0
JUNE 21...	4300	1100	--	--	--	--	--	--	--
JULY 26...	190	17	--	--	--	--	--	--	--
AUG. 27...	90	23	.00	1	<10	10	<50	.0	10

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 03...	--	--	43	6.8	22.5	7.6
NOV. 08...	--	--	53	7.1	11.0	10.0
DEC. 20...	--	--	44	7.3	12.5	12.3
JAN. 25...	--	--	35	6.7	9.5	13.6
MAR. 07...	--	--	39	6.9	12.0	11.9
APR. 09...	14	0	23	7.5	13.5	10.0
MAY 10...	--	--	22	6.0	16.0	12.0
JUNE 21...	--	--	35	6.6	21.0	9.4
JULY 26...	--	--	37	6.4	24.0	7.8
AUG. 27...	--	--	38	6.5	26.5	6.1

02419000 UPHAPEE CREEK NEAR TUSKEGEE, ALA.

LOCATION.--Lat 32°30'20", long 85°41'42", on east line of sec. 13, T. 17 N., R. 23 E., Macon County, at gaging station on left bank at downstream side of bridge on State Highway 81, 1 mile (1.6 km) upstream from Red Creek, 1.2 miles (1.9 km) upstream from bridge on Western Railway of Alabama, and 4 miles (6.4 km) north of Tuskegee.

DRAINAGE AREA.--330 mi² (855 km²).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
03...	66	7.4	210	40	6.9	3.8	3.9	2.4	--	--	5.0	6.0
NOV.												
08...	34	8.1	240	50	7.6	4.0	5.6	2.6	--	--	4.4	6.2
DEC.												
21...	383	5.0	290	30	4.5	2.1	3.3	1.8	--	--	4.8	4.6
JAN.												
26...	1740	7.8	570	10	3.0	1.2	2.0	1.4	--	--	5.0	2.6
MAR.												
07...	486	6.7	320	20	5.2	1.3	3.3	1.4	--	--	4.6	4.0
APR.												
10...	2670	6.1	630	10	8.4	1.3	2.4	1.7	--	--	3.4	1.8
MAY												
10...	775	1.8	760	20	5.3	1.4	2.3	1.4	--	--	4.0	3.0
JUNE												
21...	258	2.6	810	20	6.2	1.7	2.9	1.6	20	0	2.6	3.4
JULY												
26...	77	6.4	360	40	7.6	3.1	4.3	2.2	30	0	2.8	5.4
AUG.												
28...	33	7.0	280	40	8.1	3.3	4.4	2.0	41	0	4.1	4.7

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
OCT.											
03...	.1	.08	--	58	53	.07	33	5	.3	--	--
NOV.											
08...	.3	.10	--	57	60	.08	35	1	.4	--	--
DEC.											
21...	.1	.02	--	40	35	.05	20	5	.3	--	--
JAN.											
26...	.5	.05	--	--	33	.04	18	2	.2	--	--
MAR.											
07...	.2	.40	--	37	38	.05	19	4	.3	--	--
APR.											
10...	.2	3.0	--	--	50	.07	27	14	.2	--	--
MAY											
10...	.1	.40	--	34	33	.05	20	3	.2	61	--
JUNE											
21...	.1	.40	--	38	37	.05	23	8	.3	--	6.1
JULY											
26...	.1	.02	--	--	50	.07	32	2	.3	86	7.6
AUG.											
28...	.1	--	.01	57	54	.08	34	0	.3	90	7.1

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
03...	35	0	89	7.5	22.0	10.0
NOV.						
08...	42	0	104	7.6	15.0	11.1
DEC.						
21...	18	0	63	7.0	10.0	13.6
JAN.						
26...	18	0	33	6.7	11.0	12.6
MAR.						
07...	18	0	58	7.0	17.0	11.8
APR.						
10...	16	0	--	6.6	14.0	9.7
MAY						
10...	21	0	--	7.0	21.5	9.1
JUNE						
21...	--	--	50	--	24.0	8.9
JULY						
26...	--	--	--	--	29.0	8.5
AUG.						
28...	--	--	--	--	30.0	11.2

02420000 ALABAMA RIVER NEAR MONTGOMERY, ALA.

LOCATION.--Lat 32°24'41", long 86°24'30", in NW¼ sec. 31, T. 17 N., R. 17 E., Montgomery County, at bridge on U.S. Highway 31, 4 miles (6 km) upstream from Autauga Creek, 6 miles (10 km) northwest of Montgomery, and at mile 287.6 (462.7 km).

DRAINAGE AREA.--15,100 mi² (39,100 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973 (discontinued).

REMARKS.-- Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 06...	18900	430	--	.1	.003	.46	.080	56	.08	22
NOV. 10...	12900	--	--	.3	--	--	.049	--	--	17
DEC. 21...	48500	--	--	.2	--	--	.16	--	--	34
JAN. 25...	56500	--	350	.3	.003	.06	.091	63	.06	28
MAR. 07...	21300	--	--	.2	--	--	.059	--	--	27
APR. 09...	34400	--	130	.6	.006	.20	.095	37	.05	22
MAY 10...	69700	--	180	.3	.000	.26	.072	36	.05	6
JUNE 21...	66200	--	--	.3	--	--	.099	--	--	33
JULY 27...	29800	--	--	.2	--	--	.065	--	--	11
AUG. 27...	20200	--	50	.07	.000	.22	.039	58	.08	17

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 06...	8200	1900	.01	9	0	0	51	.0	0
NOV. 10...	1200	53	--	--	--	--	--	--	--
DEC. 21...	7100	210	--	--	--	--	--	--	--
JAN. 25...	6500	4200	.00	7	0	0	2	.0	20
MAR. 07...	2100	1700	--	--	--	--	--	--	--
APR. 09...	300	98	.00	7	0	0	1	.0	0
MAY 10...	10600	3000	.00	9	0	0	1	.0	10
JUNE 21...	2200	1600	--	--	--	--	--	--	--
JULY 27...	440	120	--	--	--	--	--	--	--
AUG. 27...	560	140	.00	2	<10	0	<50	.0	40

02420000 ALABAMA RIVER NEAR MONTGOMERY, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
06...	--	--	--	89	6.8	24.0	7.3
NOV.							
10...	--	--	--	140	7.2	18.5	9.2
DEC.							
21...	--	--	--	136	7.3	12.0	12.2
JAN.							
11...	83300	--	--	60	--	8.5	--
25...	--	--	--	72	7.1	10.0	14.4
FEB.							
01...	40600	--	--	80	--	9.0	--
MAR.							
07...	--	--	--	92	7.2	13.0	11.8
09...	38400	--	--	80	--	--	--
APR.							
09...	--	30	0	49	7.0	14.5	9.2
MAY							
10...	--	--	--	46	6.9	19.0	9.1
21...	52400	--	--	60	--	20.5	--
31...	88700	--	--	--	--	15.0	--
JUNE							
21...	--	--	--	69	7.0	26.0	6.6
JULY							
27...	--	--	--	70	7.2	28.0	6.0
AUG.							
27...	--	--	--	93	7.1	29.0	6.9

02421000 CATOMA CREEK NEAR MONTGOMERY, ALA.

LOCATION.--Lat 32°18'26", long 86°17'58", in center sec. 6, T. 15 N., R. 18 E., Montgomery County, at gaging station on right bank on downstream side of bridge on U.S. Highway 331, 5 miles (8 km) south of Montgomery.

DRAINAGE AREA.--298 mi^2 (772 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 03...	55	3.2	60	30	44	1.6	4.4	3.4	--	--	9.4	6.6
NOV. 10...	60	3.7	40	80	46	1.3	8.0	3.9	--	--	24	16
DEC. 22...	40	7.9	300	60	34	1.9	4.8	3.3	96	0	19	6.8
JAN. 26...	792	7.9	520	10	16	.9	2.9	2.3	--	--	12	5.3
MAR. 06...	180	5.9	370	10	32	1.6	5.6	2.0	--	--	19	10
APR. 09...	3530	4.9	1400	0	15	.9	1.7	1.8	--	--	5.2	2.6
MAY 11...	4680	4.2	210	10	13	.7	1.5	2.0	--	--	3.4	1.8
JUNE 21...	93	4.5	1100	30	24	1.3	3.7	2.2	--	--	8.4	8.8
JULY 27...	76	8.0	160	20	35	1.7	5.6	2.9	--	--	14	8.6
AUG. 27...	100	5.8	240	20	32	1.4	3.1	2.8	93	0	8.7	4.8

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 03...	.2	.02	--	139	138	.19	120	12	.2	--	--
NOV. 10...	.3	.09	--	172	161	.23	120	26	.3	--	--
DEC. 22...	.2	.02	--	127	125	.17	93	15	.2	--	7.2
JAN. 26...	.4	.05	--	70	69	.10	44	10	.2	--	--
MAR. 06...	.3	.20	--	128	116	.17	87	23	.3	--	--
APR. 09...	.2	.05	--	61	56	.08	41	2	.1	--	--
MAY 11...	.1	.70	--	51	49	.07	36	4	.1	76	--
JUNE 21...	.2	.05	--	99	86	.13	66	11	.2	--	--
JULY 27...	.2	.10	--	134	126	.18	95	14	.3	--	--
AUG. 27...	.2	--	.02	115	105	.16	86	9	.1	184	7.4

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 03...	132	0	245	7.6	20.0	7.4
NOV. 10...	115	0	288	7.8	15.0	6.7
DEC. 22...	--	--	222	--	11.0	10.0
JAN. 26...	42	0	95	7.2	11.5	11.4
MAR. 06...	78	0	215	7.6	17.0	10.8
APR. 09...	48	0	68	6.4	14.0	9.0
MAY 11...	39	0	--	6.8	20.0	7.8
JUNE 21...	68	0	158	7.3	24.0	8.2
JULY 27...	99	0	210	7.8	28.0	6.6
AUG. 27...	--	--	--	--	27.5	6.5

02422000 BIG SWAMP CREEK NEAR LOWNDESBORO, ALA.

LOCATION.--Lat 32°16'00", long 86°41'40', in NE¼ sec. 19, T 15 N., R. 14 E., Lowndes County, at gaging station on right bank at upstream side of bridge on U.S. Highway 80, 1 mile (1.6 km) downstream from Panther Creek, 5 miles (8 km) west of Lowndesboro, and 12 miles (19 km) upstream from mouth.

DRAINAGE AREA.--247 mi^2 (640 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968, 1969, and 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
17...	1.4	5.2	170	80	38	2.1	4.7	4.7	--	--	4.2	10
30...	18	--	--	--	--	--	--	--	76	0	--	8.8
NOV.												
29...	13	6.4	220	20	34	1.5	2.7	3.8	--	--	15	6.0
JAN.												
10...	1600	7.5	330	20	27	1.3	2.3	2.2	--	--	11	6.4
MAR.												
20...	1010	7.2	390	10	37	1.5	3.2	2.4	110	0	11	3.4
APR.												
20...	1560	4.7	390	10	28	1.3	3.7	2.1	--	--	9.4	2.8
MAY												
22...	14	7.0	30	10	62	3.2	7.1	2.4	--	--	21	7.2
JUNE												
28...	17	7.8	170	10	64	2.2	4.9	2.1	--	--	16	6.6
JULY												
24...	150	5.4	50	30	17	.9	1.4	2.1	--	--	6.2	2.0
SEP.												
07...	4.6	7.3	70	20	49	2.4	4.0	3.4	157	0	8.1	5.6

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.												
17...	.2	.02	--	--	127	.17	100	4	.2	--	--	--
30...	--	--	--	--	--	--	68	6	--	--	7.3	16.0
NOV.												
29...	.3	.05	--	122	115	.17	91	16	.1	--	--	--
JAN.												
10...	.1	.02	--	--	93	.13	73	14	.1	157	--	--
MAR.												
20...	.3	.02	--	120	120	.16	99	9	.1	--	7.6	--
APR.												
20...	.2	.07	--	94	96	.13	76	4	.2	177	--	--
MAY												
22...	.2	.10	--	215	202	.29	170	19	.2	360	--	--
JUNE												
28...	.2	.30	--	--	196	.27	170	19	.2	--	--	--
JULY												
24...	.2	.07	--	79	62	.11	46	4	.1	--	--	--
SEP.												
07...	.2	--	.02	165	158	.22	130	3	.2	285	7.8	--

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
17...	117	0	225	6.7	19.0	2.0
NOV.						
29...	92	0	192	7.4	9.0	10.6
JAN.						
10...	72	0	--	7.2	5.5	11.6
MAR.						
20...	--	--	205	--	16.0	8.6
APR.						
20...	88	0	--	7.5	19.5	7.5
MAY						
22...	184	0	--	7.7	20.5	6.5
JUNE						
28...	184	0	360	7.7	25.0	5.4
JULY						
24...	52	0	100	7.2	25.5	6.2
SEP.						
07...	--	--	--	--	26.0	5.0

02423000 ALABAMA RIVER AT SELMA, ALA.

LOCATION.--Lat 32°24'20", long 87°01'07", in SE¼ sec. 36, T. 17 N., R. 10 E., Dallas County, at gaging station in first pier from right bank of Edmund Pettus Bridge on U.S. Highway 80, in Selma, 1 mile (1.6 km) upstream from Valley Creek, and at mile 214.8 (345.6 km).

DRAINAGE AREA.--17,100 mi^2 (44,300 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-67 (partial-record station), August 1969 to September 1973 (discontinued). Water temperatures: October 1955 to November 1956, June 1962 to September 1972. June to September 1962, unpublished.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED SULFATE (SO4) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 16...	7000	--	--	.2	--	--	.046	--	--	16
NOV. 28...	18000	--	--	.1	--	.20	.055	--	--	32
JAN. 09...	--	170	7.8	.2	.003	.44	.17	69	.09	22
FEB. 14...	--	--	--	.3	--	--	.13	--	--	27
MAR. 20...	--	--	--	.5	--	--	.078	--	--	22
APR. 12...	--	110	--	.3	.006	.22	.11	45	.06	9
MAY 23...	--	40	--	.2	.015	.15	.068	40	.05	3
JULY 06...	--	--	--	.09	--	--	.080	--	--	4
24...	--	--	--	.2	--	--	.046	--	--	6
SEP. 07...	9000	80	--	.1	.000	.19	.036	57	.08	10

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 16...	420	110	--	10	0	0	5	.0	0
NOV. 28...	37000	--	--	--	--	--	--	--	--
JAN. 09...	33000	1300	.00	7	0	10	1	.0	0
FEB. 14...	5800	570	--	--	--	--	--	--	--
MAR. 20...	7000	3000	--	--	--	--	--	--	--
APR. 12...	8300	--	.01	5	0	0	1	.0	10
MAY 23...	1800	65	.00	3	0	0	0	.0	10
JULY 06...	--	15800	--	--	--	--	--	--	--
24...	570	240	--	--	--	--	--	--	--
SEP. 07...	600	130	.00	1	<10	0	50	.0	30

FIELD ANALYSES

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 16...	104	7.2	25.0	8.8
NOV. 28...	134	7.3	13.5	11.4
JAN. 09...	86	7.2	9.5	11.4
FEB. 14...	96	7.0	8.0	12.6
MAR. 20...	96	7.2	15.5	11.8
APR. 12...	82	7.7	15.0	10.0
MAY 23...	77	7.3	23.0	9.2
JULY 06...	94	6.7	28.5	7.6
24...	83	7.2	28.5	7.8
SEP. 07...	90	6.9	28.5	8.0

02423630 SHADES CREEK NEAR GREENWOOD, ALA.

LOCATION.--Lat 33°19'34", long 86°56'59", in W½ sec. 3, T. 20 S., R. 4 W., Jefferson County, at gaging station near left bank on downstream side of bridge on county road, 1.4 miles (2.3 km) southwest of Greenwood, 5.5 miles (8.8 km) south of Bessemer, and at mile 20.8 (33.5 km).

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970 (partial-record station), October 1970 to September 1973.
Water temperatures: October 1969 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 26.5°C July 23; minimum, 4.5°C Jan. 14.

Period of record:
Water temperatures: Maximum, 28.5°C July 25, 1972; minimum, 2.5°C Jan. 9, 10, 1970.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
11...	23	9.6	50	83	33	6.1	24	6.1	--	--	41	15
18...	[illegible]	--	--	--	--	--	--	--	72	0	--	7.6
NOV.												
06...	36	10	90	90	26	5.6	16	4.7	--	--	30	11
28...	106	--	--	--	--	--	--	--	56	0	--	7.2
DEC.												
18...	183	9.4	60	200	17	3.9	8.1	2.5	--	--	25	5.8
JAN.												
22...	1210	.2	660	100	9.6	2.2	3.1	2.1	--	--	14	2.7
FEB.												
15...	299	--	--	--	--	--	--	--	36	0	--	4.4
MAR.												
05...	214	9.0	260	160	15	2.5	7.8	2.3	--	--	22	5.6
21...	463	--	--	--	--	--	--	--	42	0	--	4.8
APR.												
06...	193	10	70	130	15	3.4	7.7	2.3	--	--	19	4.4
MAY												
07...	54	4.8	130	0	21	4.7	16	3.9	--	--	25	7.6
JUNE												
04...	50	--	--	--	--	--	--	--	69	0	--	7.6
18...	41	9.3	60	180	23	4.4	13	3.8	--	--	22	7.8
JULY												
23...	38	12	130	90	25	5.5	16	5.4	90	0	28	8.8
AUG.												
31...	28	5.9	100	150	31	5.5	21	5.4	106	0	32	13

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
OCT.											
11...	.2	1.6	--	208	193	.28	110	25	1.0	--	--
18...	--	--	--	--	--	--	90	31	--	--	7.2
NOV.											
06...	.3	1.4	--	--	153	.21	88	14	.7	--	--
28...	--	--	--	--	--	--	70	24	--	--	6.8
DEC.											
18...	.3	.02	--	96	97	.13	59	18	.5	--	--
JAN.											
22...	.4	.00	--	46	47	.06	33	12	.2	--	--
FEB.											
15...	--	--	--	--	--	--	42	13	--	--	7.7
MAR.											
05...	.3	.20	--	81	88	.11	48	10	.5	--	--
21...	--	--	--	--	--	--	52	17	--	--	7.9
APR.											
06...	.2	.70	--	--	91	.12	52	10	.5	--	--
MAY											
07...	.2	2.5	--	--	132	.18	72	8	.8	234	--
JUNE											
04...	--	--	--	--	--	--	84	26	--	--	6.9
18...	.3	1.4	--	146	131	.20	76	8	.7	--	--
JULY											
23...	.3	2.5	--	155	156	.21	85	11	.8	256	7.4
AUG.											
31...	.4	--	2.9	182	180	.25	106	13	.9	312	7.1

02423630 SHADES CREEK NEAR GREENWOOD, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
11...	--	104	0	328	7.2	16.5	5.8
18...	--	--	--	216	--	19.0	--
NOV.							
08...	--	87	0	257	7.1	15.0	5.9
28...	--	--	--	176	--	9.0	--
DEC.							
18...	--	58	0	175	7.0	6.5	11.4
JAN.							
16...	121	--	--	--	--	6.5	--
22...	--	26	0	85	6.5	10.0	10.8
FEB.							
15...	--	--	--	142	--	9.0	--
MAR.							
05...	--	48	0	175	7.2	14.5	8.6
21...	--	--	--	157	--	14.0	--
APR.							
06...	--	68	0	144	7.2	15.0	8.0
MAY							
02...	93	--	--	105	--	18.0	--
07...	--	78	0	--	7.1	16.0	6.3
JUNE							
04...	--	--	--	237	--	22.0	--
18...	--	83	0	218	7.1	24.0	4.3
JULY							
02...	33	--	--	--	--	24.0	--
23...	--	--	--	--	--	27.0	5.6
AUG.							
09...	78	--	--	210	--	24.0	--
31...	--	--	--	--	--	24.5	5.9
SEP.							
14...	24	--	--	272	--	25.0	--

02423630 SHADES CREEK NEAR GREENWOOD, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.0	17.0	16.5	9.5	9.0	12.0	11.0	9.5	7.5	11.5	10.5
2	18.0	17.0	18.0	17.0	9.0	8.0	11.0	10.5	10.5	9.5	11.5	11.5
3	17.5	17.0	18.5	18.0	8.5	8.0	10.5	10.5	10.5	9.0	13.0	11.5
4	18.5	17.5	18.5	17.0	10.0	8.5	10.5	10.5	9.0	8.0	13.0	13.0
5	19.5	18.5	17.0	15.5	13.0	10.0	10.5	10.0	9.0	8.0	13.0	13.0
6	19.5	18.0	15.5	15.0	13.5	13.0	10.0	9.0	11.0	9.0	14.0	13.0
7	19.0	18.5	15.0	15.0	13.5	11.0	9.0	8.0	12.0	11.0	15.5	14.0
8	18.5	17.5	15.0	15.0	11.0	11.0	8.0	7.0	12.0	11.5	16.0	15.5
9	17.5	16.5	15.0	13.5	13.0	11.0	7.5	7.5	11.5	8.0	16.0	15.5
10	17.5	16.5	13.5	13.0	15.0	13.0	7.5	7.0	8.0	6.5	16.5	16.0
11	17.5	16.5	13.0	13.0	15.0	13.0	7.0	7.0	6.5	6.0	16.5	16.5
12	18.0	17.0	13.5	13.0	13.0	12.5	7.0	6.0	6.0	6.0	16.5	15.5
13	18.0	17.0	14.0	13.0	13.5	13.0	6.0	5.0	6.0	6.0	15.5	15.5
14	19.0	18.0	15.5	14.0	13.5	13.0	5.5	4.5	8.5	6.0	17.0	15.5
15	21.0	19.0	15.0	12.5	13.0	11.0	6.5	5.5	9.0	8.5	18.0	17.0
16	20.0	19.0	12.5	11.0	11.0	9.0	7.5	6.5	9.5	8.0	18.0	16.5
17	19.0	18.5	11.0	10.0	9.0	7.5	8.0	7.5	8.0	6.5	14.5	13.5
18	19.5	18.0	10.0	9.0	7.5	6.5	10.5	8.0	7.0	6.0	13.5	12.0
19	19.5	16.5	9.5	9.0	[illegible]	6.5	11.0	10.5	8.0	7.0	13.5	12.5
20	16.5	15.5	10.0	9.5	[illegible]	8.0	11.0	10.0	8.5	8.0	14.5	13.5
21	15.5	14.5	10.0	9.5	11.5	10.5	10.0	10.0	8.5	8.0	14.5	14.0
22	15.0	14.0	9.5	9.0	11.5	11.5	10.5	10.0	8.0	8.0	14.5	13.0
23	15.5	15.0	9.0	8.5	11.5	10.5	10.5	10.5	9.0	8.0	13.5	12.5
24	17.0	15.5	8.5	7.5	10.5	10.0	10.5	9.5	9.5	8.5	14.0	13.5
25	16.5	15.0	8.0	7.5	10.0	9.5	9.5	9.0	10.0	9.5	14.5	12.5
26	15.0	14.0	8.5	8.0	9.5	9.0	9.5	9.0	11.0	10.0	14.5	14.0
27	15.5	14.0	8.5	8.0	9.0	8.0	9.5	9.5	12.0	11.0	14.0	13.5
28	16.0	15.5	9.5	8.0	8.0	7.0	9.5	9.5	11.5	11.0	14.5	13.5
29	16.0	15.5	9.5	9.5	8.0	7.5	9.5	8.5	---	---	15.0	14.5
30	15.5	15.5	9.5	9.0	10.0	8.0	8.5	7.0	---	---	15.0	15.0
31	16.5	15.5	---	---	12.5	10.0	7.5	7.0	---	---	16.5	15.0
MONTH	21.0	14.0	18.5	7.5	15.0	6.5	12.0	4.5	12.0	6.0	18.0	10.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	18.0	17.0	20.5	20.5	24.0	23.0	23.5	23.5	24.0	23.5
2	15.5	15.5	18.5	18.0	21.0	20.5	24.0	23.5	24.5	23.5	24.0	23.5
3	15.5	15.5	18.5	18.5	22.0	21.0	23.5	23.5	24.5	24.0	24.5	23.5
4	15.5	15.0	18.5	17.5	22.5	21.5	24.5	23.5	24.0	22.5	24.5	23.5
5	15.0	14.0	17.5	16.5	23.0	22.5	24.5	24.0	23.0	22.5	24.0	23.5
6	14.0	13.5	16.5	16.5	22.5	22.5	25.0	24.0	23.5	22.5	24.0	23.5
7	13.5	12.5	16.5	16.5	22.5	21.5	24.0	24.0	24.0	23.0	24.5	24.0
8	14.0	12.5	19.0	16.5	22.0	21.0	24.5	24.0	24.5	23.5	24.5	24.0
9	14.0	12.5	19.0	18.0	22.0	21.5	24.5	24.0	25.0	24.0	25.0	24.0
10	14.0	13.0	18.5	18.0	23.0	22.0	24.5	24.0	25.0	24.0	25.5	24.5
11	13.0	12.0	20.0	18.5	23.5	22.5	24.5	24.0	25.0	24.0	25.5	24.5
12	13.5	12.0	20.0	18.5	23.5	22.5	24.5	24.5	24.5	23.5	25.0	23.5
13	14.5	13.5	18.5	18.5	23.0	22.5	25.0	24.0	24.5	24.0	24.5	24.0
14	15.0	14.5	18.5	17.0	23.5	22.5	25.0	24.5	24.5	24.0	25.5	24.0
15	15.5	15.0	17.5	17.0	24.0	23.0	25.0	24.5	24.0	24.0	25.5	24.5
16	16.5	15.5	17.5	17.0	24.5	24.0	25.0	24.0	24.5	24.0	25.5	24.5
17	16.0	16.0	17.0	17.0	24.5	24.0	24.5	24.0	24.0	24.0	25.0	24.5
18	16.5	16.0	17.0	16.5	24.5	23.5	24.5	24.0	24.0	24.0	24.5	23.0
19	17.5	16.5	17.5	16.5	24.5	23.5	24.5	24.5	24.0	24.0	23.0	21.0
20	18.5	17.5	18.5	17.5	24.0	23.5	24.5	24.0	24.0	23.0	21.5	20.0
21	19.0	18.5	18.5	18.0	24.5	23.5	25.0	24.5	24.0	23.5	22.0	20.5
22	19.5	19.0	19.5	18.5	24.0	23.5	26.0	25.0	23.5	22.5	23.0	21.5
23	19.5	19.5	20.5	19.5	24.0	23.0	26.5	25.5	23.5	22.5	23.5	22.5
24	19.5	19.0	21.0	20.5	23.5	22.5	26.0	25.5	23.0	22.5	24.0	23.0
25	19.5	18.5	21.0	20.0	23.5	22.5	26.0	25.5	23.5	22.5	24.0	23.0
26	18.5	17.5	20.5	20.0	24.0	23.0	26.0	25.5	23.5	22.5	24.0	23.5
27	17.5	16.0	20.5	20.5	24.5	23.5	26.0	25.5	23.5	23.0	24.0	23.5
28	16.0	15.0	20.5	20.5	24.5	23.5	26.0	25.0	23.5	23.0	24.5	24.0
29	15.5	14.5	20.5	20.5	24.0	23.0	26.0	25.5	24.5	23.5	25.0	24.5
30	17.0	15.5	20.5	20.0	24.0	23.5	26.0	25.0	24.5	24.0	24.5	22.5
31	---	---	20.5	20.0	---	---	25.0	23.5	24.0	23.5	---	---
MONTH	19.5	12.0	21.0	16.5	24.5	20.5	26.5	23.0	25.0	22.5	25.5	20.0

02424000 CAHABA RIVER AT CENTREVILLE, ALA.

LOCATION.--Lat 32°56'42", long 87°08'21", in E½ sec. 26, T. 23 N., R. 9 E., Bibb County, at gaging station on left bank 60 ft (18 m) downstream from bridge on U.S. Highway 82, 0.2 mile (0.3 km) west of Centreville, 0.5 mile (0.8 km) upstream from Gulf, Mobile & Ohio Railroad bridge, 2.5 miles (4.0 km) upstream from Sandy Creek, and at mile 81.2 (130.6 km).

DRAINAGE AREA.--1,029 mi^2 (2,665 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
03...	669	7.9	170	20	20	6.5	5.1	3.2	--	--	20	4.4
NOV.												
07...	561	7.6	120	30	23	7.8	4.8	1.8	--	--	19	4.0
DEC.												
22...	2530	7.1	60	30	16	5.5	3.6	2.5	--	--	17	3.0
JAN.												
25...	3210	7.1	750	10	10	3.7	3.4	1.6	--	--	13	1.8
FEB.												
12...	1300	--	--	--	--	--	--	--	74	0	--	3.4
MAR.												
09...	1780	7.4	210	10	16	5.0	4.4	1.4	--	--	14	2.8
23...	2330	--	--	--	--	--	--	--	54	4	--	2.6
APR.												
10...	4420	6.9	480	20	12	3.3	3.7	1.6	46	0	13	2.0
MAY												
11...	2150	6.3	460	10	11	3.6	2.9	1.8	--	--	13	2.4
JUNE												
05...	1250	--	--	--	--	--	--	--	77	0	--	2.2
19...	7510	6.1	130	40	14	4.8	2.8	1.5	56	0	12	2.6
JULY												
25...	730	8.1	140	10	21	8.2	3.3	1.6	--	--	18	1.8
AUG.												
27...	427	8.0	30	30	33	9.5	4.2	1.5	--	--	18	2.7

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
03...	.1	.10	--	102	105	.14	77	16	.3	--	--
NOV.											
07...	.3	.60	--	117	--	.16	90	--	.2	--	--
DEC.											
22...	.2	.08	--	81	85	.11	63	14	.2	--	--
JAN.											
25...	.3	.09	--	--	58	.08	40	12	.2	--	--
FEB.											
12...	--	--	--	--	--	--	71	11	--	--	8.1
MAR.											
09...	.2	.20	--	78	82	.11	61	10	.2	--	--
23...	--	--	--	--	--	--	59	15	--	--	8.9
APR.											
10...	.2	.20	--	--	67	.09	44	7	.2	124	7.9
MAY											
11...	.1	.30	--	70	65	.10	43	7	.2	108	--
JUNE											
05...	--	--	--	--	--	--	77	14	--	--	8.1
19...	.1	.40	--	77	74	.10	55	9	.2	--	--
JULY											
25...	.1	.20	--	107	105	.15	86	16	.2	--	--
AUG.											
27...	.1	--	.23	--	--	.16	110	--	.2	231	--

02424000 CAHABA RIVER AT CENTREVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
03...	--	75	0	182	7.4	19.0	7.9
25...	627	--	--	200	--	17.0	--
NOV.							
07...	--	88	0	199	7.7	16.5	8.6
27...	1890	--	--	224	--	14.0	--
DEC.							
22...	--	60	0	148	7.6	10.5	9.7
JAN.							
11...	4300	--	--	--	--	5.0	--
25...	--	33	0	102	6.9	9.5	14.0
FEB.							
12...	--	--	--	162	--	11.0	--
MAR.							
09...	--	62	0	137	8.0	16.0	--
23...	--	--	--	141	--	14.5	--
APR.							
10...	--	--	--	--	--	13.0	9.7
30...	2340	--	--	128	--	18.0	--
MAY							
11...	--	44	0	--	7.4	19.0	8.7
JUNE							
05...	--	--	--	177	--	25.0	--
19...	--	--	--	132	--	23.0	9.6
JULY							
25...	--	86	0	179	7.9	28.0	8.5
AUG.							
06...	616	--	--	--	--	25.0	--
27...	--	122	0	--	7.2	24.5	7.9
SEP.							
12...	360	--	--	252	--	--	--

[illegible] BIG SWAMP CREEK NEAR ORRVILLE, ALA.

LOCATION.--Lat 32°13'17", long 87°09'48", in NW¼ sec. 3, T. 16 N., R. 9 E., Dallas County, at gaging station, on left bank 20 feet (6 m) upstream from county road, 3 miles (4.8 km) upstream from mouth, and 9.8 miles (15.8 km) southeast of Orrville, Ala.

DRAINAGE AREA.--37.8 mi^2 (97.9 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1972 to September 1973 (discontinued).
Water temperatures: May 1972 to September 1973 (discontinued).

EXTREMES.--1972-73:
Specific conductance: Maximum, 94 micromhos Oct. 27; minimum, 31 micromhos Mar. 31, Apr. 7.
pH: Maximum, 8.3 units Feb. 1; minimum, 5.2 units Dec. 17.
Dissolved oxygen: Maximum, 12.9 mg/l Jan. 13; minimum, 5.8 mg/l May 27.
Temperature: Maximum, 28.5°C July 24-25, 29; minimum, 2.5°C Jan. 13-14.

Period of record:
Specific conductance: Maximum, 163 micromhos Sept. 18, 1972; minimum, 31 micromhos Mar. 31, Apr. 7, 1972.
pH: Maximum, 9.2 units July 23, 1972; minimum, 5.2 units Dec. 17, 1972.
Dissolved oxygen: Maximum, 12.9 mg/l Jan. 13, 1973; minimum, 5.0 mg/l June 19, 1972.
Water temperatures: Maximum, 29.0°C July 25, Aug. 7, 8, 1972.

REMARKS.--Miscellaneous sample of chemical data published for water year 1972. No specific conductance, pH, turbidity, dissolved oxygen, or water temperature data for some days because of recorder malfunction.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER AND CONTINUOUS RECORDER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	47	44	75	73	70	68	54	50	63	45	65	61
2	49	45	78	74	73	70	55	53	49	44	65	62
3	50	46	74	70	76	73	56	53	52	48	63	60
4	51	50	73	68	74	73	55	54	55	53	64	61
5	50	48	68	65	76	70	56	54	57	55	65	62
6	50	48	66	65	72	62	57	57	60	57	65	62
7	49	47	76	63	75	66	57	58	61	60	65	57
8	50	48	78	63	81	74	---	---	62	58	59	57
9	52	48	63	59	85	81	---	---	51	50	63	59
10	53	51	64	61	86	85	---	---	52	49	65	63
11	51	49	66	62	87	86	---	---	59	52	68	40
12	53	51	62	61	88	84	46	43	61	59	46	40
13	55	53	68	52	88	70	49	46	61	61	55	46
14	56	52	57	50	78	72	52	49	61	45	56	54
15	56	54	61	57	73	61	55	52	58	46	57	56
16	58	56	61	59	72	66	58	56	57	50	58	37
17	58	57	60	58	78	71	60	58	59	57	44	33
18	61	59	59	57	80	78	61	60	59	59	42	38
19	63	59	58	56	79	77	64	60	59	59	39	38
20	61	59	57	54	78	66	61	60	59	56	40	39
21	62	60	56	54	67	52	61	49	60	57	41	39
22	63	61	55	54	59	57	49	45	60	60	44	41
23	76	57	54	52	61	60	49	48	60	59	47	44
24	85	69	53	51	60	57	52	49	60	59	49	47
25	86	83	52	38	59	58	55	52	62	60	---	---
26	83	80	49	43	62	60	54	52	63	61	---	---
27	94	66	52	48	64	62	[illegible]	52	64	61	---	---
28	75	66	52	50	67	64	56	53	64	61	47	45
29	72	70	74	52	68	67	56	54	---	---	49	47
30	72	71	74	69	70	67	56	54	---	---	56	36
31	73	72	---	---	67	47	57	56	---	---	45	31
MONTH	94	44	78	38	88	47	64	43	64	44	68	31

02421000 BIG SWAMP CREEK NEAR HAYNEVILLE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	41	33	---	---	74	51	---	---	67	63	68	65
2	41	39	---	---	54	49	---	---	70	67	68	65
3	45	40	---	---	60	54	---	---	72	69	66	64
4	48	45	---	---	70	52	---	---	72	69	65	63
5	53	48	---	---	---	---	---	---	72	70	---	---
6	54	53	---	---	---	---	82	78	73	71	---	---
7	55	31	---	---	---	---	70	62	72	71	---	---
8	43	36	---	---	---	---	67	63	71	70	---	---
9	45	43	---	---	---	---	71	60	81	58	---	---
10	49	45	---	---	---	---	63	49	78	72	---	---
11	50	47	66	61	---	---	52	45	74	72	---	---
12	51	50	67	62	---	---	52	45	73	59	---	---
13	54	51	67	65	---	---	63	45	71	62	---	---
14	58	56	70	67	---	---	56	45	73	71	---	---
15	59	57	73	70	---	---	60	49	73	72	---	---
16	61	59	75	73	---	---	65	59	73	72	---	---
17	63	61	81	73	---	---	69	65	73	69	---	---
18	62	52	77	74	---	---	74	69	71	68	---	---
19	52	49	76	52	---	---	76	73	70	67	---	---
20	56	52	77	73	---	---	78	75	70	68	---	---
21	59	56	74	71	64	59	79	76	71	69	---	---
22	63	59	78	74	67	64	80	78	71	68	---	---
23	67	63	81	77	68	67	80	76	69	67	---	---
24	69	67	77	57	72	68	79	73	69	66	---	---
25	---	---	83	59	73	70	76	76	68	65	---	---
26	---	---	65	63	70	62	78	75	69	65	---	---
27	---	---	66	61	69	63	79	76	69	66	---	---
28	---	---	78	48	82	55	79	77	69	66	---	---
29	---	---	61	50	71	59	78	76	68	65	---	---
30	---	---	64	61	72	71	77	65	68	65	---	---
31	---	---	71	64	---	---	74	62	69	66	---	---
MONTH	69	31	---	---	---	---	82	45	81	58	---	---

02421200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.6	6.0	6.6	6.5	6.1	5.8	6.2	5.9	8.3	7.3	7.4	7.0
2	6.7	6.0	6.8	6.5	6.0	5.8	5.9	5.7	7.5	7.3	7.3	7.1
3	6.8	6.4	6.9	6.6	5.9	5.6	5.9	5.7	7.4	7.3	7.6	7.0
4	7.0	6.2	6.8	6.4	5.8	5.6	6.1	5.9	7.4	7.3	7.5	7.0
5	6.6	6.0	6.6	6.2	6.0	5.7	6.0	5.9	7.4	6.8	7.5	7.0
6	6.8	6.0	6.4	6.0	5.7	5.6	6.0	5.9	6.9	6.8	7.5	7.0
7	6.8	6.2	6.7	6.3	6.0	5.7	5.9	5.9	7.1	6.9	7.0	6.8
8	6.6	6.2	6.8	6.2	6.2	6.0	---	---	7.0	6.6	6.9	6.7
9	6.6	6.0	6.9	6.0	6.5	6.1	---	---	6.6	6.4	7.0	6.8
10	6.6	6.0	6.4	6.0	6.5	6.3	---	---	6.6	6.4	7.1	6.9
11	6.6	6.2	6.3	5.8	6.4	6.2	---	---	6.7	6.6	7.2	6.3
12	6.6	6.0	6.6	6.0	6.6	6.1	7.7	7.3	6.8	6.6	6.3	6.2
13	6.8	6.0	7.1	5.8	6.2	6.0	7.3	7.1	6.9	6.7	6.6	6.3
14	6.8	6.2	6.2	5.8	6.1	6.0	7.5	7.3	6.9	6.5	6.7	6.6
15	6.6	6.2	6.1	5.9	5.9	5.6	7.6	7.5	6.5	6.4	6.7	6.7
16	6.6	6.0	6.1	5.8	5.6	5.3	7.6	7.5	6.6	6.5	7.6	6.6
17	6.6	6.0	6.2	6.0	5.4	5.2	7.7	7.6	6.6	6.5	6.7	6.5
18	6.8	6.0	6.3	6.0	5.5	5.3	7.7	7.6	6.8	6.6	6.6	6.5
19	7.0	6.2	6.4	6.2	5.7	5.4	7.9	7.6	6.8	6.7	6.6	6.5
20	6.3	6.0	6.2	6.0	6.0	5.6	7.7	7.6	7.2	6.7	6.6	6.5
21	6.6	6.0	6.3	6.0	5.8	5.5	7.8	7.3	7.1	6.9	6.6	6.5
22	6.8	6.0	6.3	6.1	5.5	5.4	7.4	7.3	7.1	6.8	6.6	6.5
23	6.8	6.4	6.4	6.2	5.5	5.4	7.4	7.2	7.2	7.0	6.7	6.5
24	6.5	6.2	6.4	6.1	5.6	5.5	7.5	7.3	7.4	6.9	6.7	6.6
25	6.4	5.9	6.3	6.1	5.7	5.6	7.5	7.4	7.3	7.0	---	---
26	6.4	6.1	6.2	6.1	5.8	5.6	7.6	7.5	7.3	7.0	---	---
27	7.4	6.1	6.4	6.1	5.8	5.6	7.6	7.5	7.4	7.0	---	---
28	7.1	6.9	6.4	6.2	6.1	5.7	7.6	7.5	7.4	7.0	6.8	6.7
29	7.2	6.7	6.3	6.1	6.5	6.0	7.5	7.3	---	---	6.8	6.7
30	7.2	6.8	6.2	5.9	6.7	6.2	7.4	7.3	---	---	6.7	6.5
31	7.0	6.7	---	---	6.8	6.2	7.5	7.3	---	---	7.5	6.5
MONTH	7.4	5.9	7.1	5.8	6.8	5.2	7.9	5.7	8.3	6.4	7.6	6.2

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.7	6.5	---	---	6.8	6.3	---	---	7.3	6.5	7.6	6.6
2	6.8	6.7	---	---	6.6	6.3	---	---	7.8	6.6	8.0	6.8
3	6.8	6.7	---	---	6.7	6.5	---	---	8.0	6.8	8.1	6.8
4	6.8	6.8	---	---	6.9	6.4	---	---	8.0	6.9	8.2	6.8
5	6.9	6.8	---	---	---	---	---	---	8.1	6.9	---	---
6	6.9	6.9	---	---	---	---	7.5	7.1	8.1	6.9	---	---
7	7.3	6.6	---	---	---	---	7.2	7.0	7.8	6.9	---	---
8	6.7	6.5	---	---	---	---	7.3	7.0	8.0	6.9	---	---
9	6.8	6.7	---	---	---	---	7.2	6.9	8.1	6.8	---	---
10	6.8	6.7	---	---	---	---	7.3	6.6	7.1	6.8	---	---
11	6.9	6.7	6.9	6.8	---	---	6.7	6.5	7.6	6.8	---	---
12	6.8	6.8	6.9	6.8	---	---	6.8	6.6	7.5	6.5	---	---
13	6.9	6.8	6.9	6.9	---	---	7.5	6.7	6.9	6.4	---	---
14	6.9	6.9	7.0	6.9	---	---	6.7	6.5	7.2	6.7	---	---
15	6.9	6.9	7.1	6.9	---	---	6.8	6.6	7.6	6.7	---	---
16	6.9	6.9	7.1	6.9	---	---	6.9	6.7	7.7	6.7	---	---
17	6.9	6.8	7.1	6.9	---	---	7.0	6.8	7.3	6.7	---	---
18	6.9	6.5	7.0	6.9	---	---	7.0	6.8	7.6	6.7	---	---
19	6.6	6.5	7.1	6.8	---	---	7.0	6.7	8.1	6.6	---	---
20	6.7	6.6	7.0	6.8	---	---	7.1	6.8	8.0	6.7	---	---
21	6.7	6.7	7.0	6.7	7.0	6.8	7.2	6.8	7.7	6.6	---	---
22	6.8	6.7	7.1	6.8	7.0	7.0	7.2	6.8	7.6	6.6	---	---
23	6.9	6.8	7.1	6.8	7.1	6.9	7.2	6.8	7.8	6.6	---	---
24	6.9	6.8	6.9	6.5	7.1	7.0	7.3	6.8	7.7	6.6	---	---
25	---	---	6.7	6.5	7.1	7.0	7.3	6.8	8.0	6.6	---	---
26	---	---	6.7	6.6	7.1	6.9	7.2	6.8	8.0	6.7	---	---
27	---	---	6.8	6.6	7.1	6.9	7.5	6.7	8.0	6.7	---	---
28	---	---	8.1	6.3	7.4	6.6	7.5	6.8	7.8	6.7	---	---
29	---	---	6.6	6.3	6.9	6.7	7.8	6.8	8.0	6.8	---	---
30	---	---	6.7	6.3	7.1	6.9	7.6	6.7	7.8	6.7	---	---
31	---	---	6.8	6.7	---	---	7.2	6.6	7.6	6.8	---	---
MONTH	7.3	6.5	---	---	---	---	7.8	6.5	8.1	6.4	---	---

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2	1	0	0	20	20	40	10	850	30	---	---
2	1	1	1	0	20	20	30	0	60	20	---	---
3	4	1	0	0	20	20	30	0	---	---	---	---
4	3	0	0	0	20	20	50	0	---	---	---	---
5	3	0	0	0	30	20	50	0	---	---	---	---
6	3	0	2	0	140	20	50	0	---	---	0	0
7	3	0	20	2	40	20	130	0	---	---	0	0
8	3	0	6	4	20	20	---	---	---	---	0	0
9	3	0	4	0	20	20	---	---	---	---	0	0
10	3	0	0	0	20	20	---	---	---	---	0	0
11	3	0	0	0	25	20	---	---	---	---	260	0
12	3	0	0	0	25	25	10	0	---	---	60	7
13	3	0	270	0	25	25	10	0	---	---	7	0
14	3	0	35	10	25	25	10	0	---	---	0	0
15	3	0	15	0	160	25	10	0	---	---	0	0
16	3	0	5	5	25	25	20	0	---	---	650	0
17	3	0	6	5	25	25	20	0	---	---	140	9
18	3	0	7	6	25	25	25	0	---	---	9	5
19	3	0	8	7	25	25	30	0	---	---	0	0
20	0	0	9	8	95	25	20	0	---	---	15	0
21	0	0	9	9	500	95	70	0	---	---	0	0
22	0	0	10	9	220	210	20	0	---	---	0	0
23	110	0	10	10	220	140	20	0	---	---	0	0
24	5	3	10	10	150	75	20	0	---	---	320	0
25	3	0	220	10	75	45	10	0	---	---	340	20
26	0	0	45	20	45	40	20	0	---	---	20	2
27	40	0	20	20	40	30	10	0	---	---	---	---
28	1	0	20	20	30	30	10	0	---	---	40	8
29	0	0	30	20	60	10	10	0	---	---	30	9
30	0	0	20	20	30	10	30	0	---	---	350	9
31	0	0	---	---	190	10	30	0	---	---	650	70
MONTH	110	0	270	0	500	10	130	0	---	---	650	0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	70	25	---	---	110	0	---	---	0	0	0	0
2	30	15	---	---	180	35	---	---	0	0	0	0
3	15	7	---	---	35	30	---	---	0	0	0	0
4	7	0	---	---	1100	30	---	---	0	0	0	0
5	0	0	---	---	---	---	---	---	0	0	---	---
6	0	0	---	---	---	---	0	0	0	0	---	---
7	0	0	---	---	---	---	0	0	0	0	---	---
8	0	0	---	---	---	---	0	0	0	0	---	---
9	0	0	---	---	---	---	0	0	300	0	---	---
10	0	0	---	---	---	---	800	0	15	0	---	---
11	0	0	0	0	---	---	440	20	0	0	---	---
12	0	0	95	0	---	---	20	0	110	0	---	---
13	0	0	0	0	---	---	430	0	50	0	---	---
14	0	0	0	0	---	---	470	30	0	0	---	---
15	0	0	0	0	---	---	30	0	0	0	---	---
16	0	0	0	0	---	---	0	0	0	0	---	---
17	0	0	0	0	---	---	0	0	10	0	---	---
18	---	---	0	0	---	---	0	0	0	0	---	---
19	---	---	0	0	---	---	0	0	0	0	---	---
20	---	---	0	0	---	---	0	0	0	0	---	---
21	---	---	0	0	---	---	0	0	0	0	---	---
22	0	0	0	0	0	0	0	0	25	0	---	---
23	0	0	0	0	0	0	0	0	0	0	---	---
24	0	0	55	0	0	0	0	0	0	0	---	---
25	---	---	75	0	0	0	0	0	0	0	---	---
26	---	---	10	0	0	0	0	0	0	0	---	---
27	---	---	320	9	0	0	0	0	0	0	---	---
28	---	---	1000	75	800	0	0	0	0	0	---	---
29	---	---	75	15	80	30	0	0	0	0	---	---
30	---	---	0	0	35	30	40	0	0	0	---	---
31	---	---	0	0	---	---	0	0	0	0	---	---
MONTH	---	---	---	---	---	---	800	0	300	0	---	---

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.2	7.2	8.2	6.2	11.2	10.3	9.8	9.0	---	---	10.4	9.2
2	8.4	7.1	7.6	6.3	11.6	10.9	10.1	9.8	---	---	9.6	8.8
3	8.6	7.0	7.7	6.3	11.5	10.2	9.8	9.3	---	---	9.5	8.3
4	8.5	7.3	7.7	6.8	10.2	9.4	9.4	9.3	---	---	9.2	8.3
5	9.9	8.3	8.8	7.3	9.8	6.5	9.8	9.3	---	---	9.2	8.0
6	10.2	8.2	8.6	6.2	9.1	6.5	10.1	9.7	---	---	9.2	7.8
7	10.2	8.4	7.6	6.2	10.1	9.1	10.8	10.1	10.0	9.6	9.0	7.8
8	10.1	8.3	8.6	7.6	9.9	8.8	---	---	10.0	9.1	8.3	7.8
9	10.4	8.8	9.4	8.3	9.3	8.1	---	---	9.4	8.2	8.6	7.9
10	10.3	8.5	8.7	8.0	8.9	8.1	---	---	9.5	9.1	8.3	7.8
11	10.0	8.2	9.1	8.1	9.7	8.2	---	---	10.1	9.3	8.6	7.8
12	9.8	8.2	8.9	7.9	9.6	8.2	12.3	11.8	9.8	9.6	8.2	7.5
13	10.0	8.0	8.7	7.7	8.6	8.2	12.9	12.3	9.9	9.5	7.7	7.3
14	9.7	7.7	8.1	7.7	9.0	8.2	12.7	12.0	9.7	8.7	7.4	7.0
15	9.3	7.5	9.2	8.1	9.4	8.4	12.0	11.0	9.3	9.0	7.3	7.0
16	9.0	7.0	10.2	9.2	10.9	9.3	11.3	10.5	10.1	9.6	---	---
17	8.8	6.6	9.8	9.2	11.7	10.9	10.8	10.1	11.2	10.1	---	---
18	8.8	6.6	10.6	9.8	12.1	11.2	10.3	9.4	11.5	10.9	---	---
19	8.6	6.4	9.8	9.3	11.7	10.0	9.4	9.1	11.3	11.0	---	---
20	10.0	7.6	10.0	9.3	10.0	9.0	---	---	11.4	10.9	---	---
21	10.3	8.3	10.7	10.0	9.0	8.0	---	---	11.4	10.9	---	---
22	10.8	8.2	10.6	10.0	9.3	7.9	---	---	11.4	10.6	---	---
23	8.9	7.6	11.0	10.2	9.8	9.2	---	---	10.7	10.0	---	---
24	8.5	7.0	11.4	10.6	10.0	9.3	---	---	10.9	9.9	---	---
25	8.9	6.8	10.9	9.9	9.8	9.2	---	---	10.4	9.6	---	---
26	9.4	8.1	10.4	9.9	10.2	9.8	---	---	10.3	9.3	---	---
27	9.6	8.8	11.1	9.9	10.4	10.1	---	---	10.0	9.2	---	---
28	9.3	8.8	10.2	9.6	10.5	9.9	---	---	10.4	9.3	10.0	8.8
29	9.7	8.6	11.2	9.8	10.6	9.8	---	---	---	---	8.9	8.7
30	9.3	7.8	10.3	9.9	10.8	9.6	---	---	---	---	9.1	8.9
31	8.4	6.4	---	---	9.6	9.0	---	---	---	---	9.0	9.0
MONTH	10.8	6.4	11.4	6.2	12.1	7.9	---	---	11.5	8.2	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.1	7.8	---	---	6.3	6.1	---	---	8.7	7.1	9.1	7.1
2	8.5	8.0	---	---	6.5	6.2	---	---	9.1	7.1	9.5	7.2
3	8.6	8.2	---	---	6.4	6.1	---	---	9.1	7.1	9.6	7.4
4	9.2	8.4	---	---	6.3	5.9	---	---	9.4	7.2	9.5	7.2
5	9.7	9.2	---	---	6.1	6.0	---	---	9.7	7.1	---	---
6	9.7	9.3	---	---	6.2	6.0	8.1	7.0	9.3	7.0	---	---
7	9.7	9.1	---	---	---	---	8.3	7.2	8.7	6.8	---	---
8	9.4	9.0	---	---	---	---	8.5	7.4	9.1	6.8	---	---
9	9.3	9.0	---	---	---	---	8.6	7.5	9.0	6.7	---	---
10	9.7	9.2	---	---	---	---	8.7	7.7	7.9	6.7	---	---
11	10.1	9.6	9.0	8.6	---	---	7.9	7.7	8.7	6.7	---	---
12	10.1	9.7	9.0	8.7	---	---	8.4	7.8	8.8	6.7	---	---
13	9.8	9.2	9.3	8.9	---	---	8.5	7.8	7.9	6.6	---	---
14	9.6	9.0	9.6	9.1	---	---	7.9	7.9	8.4	6.8	---	---
15	9.5	8.8	9.6	9.1	---	---	8.2	7.8	8.7	7.0	---	---
16	9.0	8.9	9.7	9.0	---	---	8.3	7.8	8.6	6.8	---	---
17	9.1	8.7	9.5	8.3	---	---	8.1	7.4	8.6	6.9	---	---
18	8.8	8.4	8.5	7.8	---	---	8.2	7.5	8.7	6.9	---	---
19	8.4	7.9	7.8	7.0	---	---	8.3	7.4	8.9	6.7	---	---
20	8.1	7.9	7.3	6.7	---	---	8.3	7.4	8.9	6.7	---	---
21	8.1	7.9	7.2	6.6	7.8	7.5	8.5	7.5	8.5	6.5	---	---
22	8.1	7.8	7.0	6.4	7.9	7.4	8.6	7.4	8.7	6.6	---	---
23	8.1	7.7	6.9	6.2	7.9	7.3	8.5	7.3	9.1	6.8	---	---
24	8.3	7.7	6.6	6.2	7.8	7.2	8.4	7.2	9.4	7.4	---	---
25	---	---	6.5	6.2	7.7	7.2	8.5	7.2	9.7	7.4	---	---
26	---	---	6.4	6.2	7.9	7.2	8.4	7.1	9.5	7.2	---	---
27	---	---	6.3	5.8	7.9	7.2	8.7	7.2	9.5	7.2	---	---
28	---	---	6.3	6.0	7.8	6.9	8.6	7.2	9.4	7.2	---	---
29	---	---	6.4	6.1	7.4	7.0	8.9	7.1	9.5	7.1	---	---
30	---	---	6.6	6.2	7.8	7.2	8.7	7.0	9.6	7.0	---	---
31	---	---	6.5	6.1	---	---	8.6	7.1	9.3	7.2	---	---
MONTH	10.1	7.7	---	---	---	---	8.9	7.0	9.7	6.5	---	---

02425200 BIG SWAMP CREEK NEAR ORRVILLE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1972
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	16.5	18.5	16.5	8.0	6.0	12.5	10.5	12.5	7.5	13.0	9.0
2	20.0	16.5	20.5	17.5	8.0	5.5	10.5	10.0	12.0	10.5	13.5	12.0
3	21.5	18.5	20.5	18.5	10.0	6.5	12.0	10.0	10.5	8.5	16.5	13.0
4	24.5	19.5	19.0	15.0	11.0	9.0	12.5	11.5	9.0	7.0	16.0	14.0
5	22.5	19.5	16.0	13.0	14.0	11.0	11.5	10.5	11.0	9.0	16.5	14.0
6	21.0	18.0	16.0	14.0	15.0	12.0	11.0	10.0	13.0	10.5	18.0	14.5
7	21.0	18.0	16.5	15.5	12.0	10.5	10.0	8.5	14.0	11.5	18.5	17.0
8	20.0	17.0	15.5	12.5	13.5	11.0	---	---	13.5	9.5	18.5	18.0
9	19.0	14.5	14.0	10.5	16.0	13.5	---	---	9.5	5.0	19.5	17.0
10	19.5	15.0	14.5	11.5	18.0	15.5	---	---	5.5	4.0	19.0	18.0
11	20.0	16.5	14.0	11.5	15.5	13.5	---	---	5.5	3.5	18.5	16.0
12	20.0	16.5	15.0	12.0	16.5	13.5	5.0	3.5	5.0	4.5	18.0	15.0
13	20.0	16.5	16.0	12.5	17.0	14.5	3.5	2.5	6.5	4.5	19.0	16.5
14	21.0	18.0	15.5	13.5	14.5	14.0	5.0	2.5	10.5	6.5	21.0	18.5
15	22.5	20.0	13.5	10.0	14.5	11.0	7.0	4.0	10.5	9.0	21.5	20.5
16	20.5	17.0	10.0	8.0	11.0	7.0	8.0	5.5	9.0	7.0	21.0	17.5
17	21.5	18.0	10.0	8.0	7.0	5.0	9.0	6.0	7.0	4.5	17.5	14.0
18	22.5	18.5	9.5	7.5	6.0	4.0	10.5	7.5	6.5	4.5	15.0	12.5
19	20.5	16.0	11.0	9.5	9.0	5.0	12.5	10.5	8.5	6.0	15.5	12.5
20	16.0	14.0	10.0	8.5	12.0	9.0	11.0	9.0	10.5	7.0	16.0	15.0
21	15.5	13.5	10.0	8.5	13.5	12.0	12.0	9.5	9.5	7.0	15.5	13.5
22	17.5	13.5	9.0	8.0	13.5	11.0	11.5	10.0	10.0	6.0	13.5	11.5
23	19.0	17.0	9.0	7.5	11.0	9.0	11.0	9.5	11.5	8.0	14.5	12.0
24	18.5	16.0	8.0	6.0	9.0	8.5	10.0	8.5	11.5	7.0	14.5	13.0
25	16.0	14.0	9.5	7.5	9.0	7.5	8.5	7.5	12.5	9.5	15.5	12.5
26	14.5	12.0	9.5	8.0	8.5	7.0	11.0	8.5	14.0	9.5	15.5	14.0
27	17.5	14.0	9.5	6.0	7.5	5.5	10.0	8.5	14.0	10.5	15.5	13.5
28	16.0	15.0	11.0	9.5	8.0	5.0	11.0	9.5	13.0	9.0	16.0	13.0
29	16.5	14.0	10.0	8.5	9.5	7.0	9.5	5.5	---	---	16.0	15.5
30	18.5	15.5	9.5	8.0	12.5	8.5	6.5	4.5	---	---	15.5	15.0
31	18.5	16.0	---	---	13.5	12.5	7.5	5.0	---	---	16.5	15.5
MONTH	24.5	12.0	20.5	6.0	18.0	4.0	12.5	2.5	14.0	3.5	21.5	9.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.5	---	---	21.5	19.5	---	---	27.5	24.5	25.5	24.0
2	17.0	15.5	---	---	21.0	19.0	---	---	26.5	25.0	26.0	24.0
3	16.5	15.5	---	---	23.0	20.5	---	---	26.5	23.5	26.0	24.0
4	16.5	13.5	---	---	23.5	21.5	---	---	25.5	22.5	27.0	23.5
5	14.0	12.0	---	---	---	---	---	---	26.5	23.5	---	---
6	14.0	12.0	---	---	---	---	27.5	25.0	27.0	24.0	---	---
7	13.5	12.5	---	---	---	---	26.5	23.0	27.0	24.0	---	---
8	14.5	12.5	---	---	22.5	21.0	26.5	22.5	27.5	24.5	---	---
9	14.5	13.0	---	---	23.0	22.0	26.5	23.0	27.5	24.5	---	---
10	13.0	11.5	---	---	23.5	22.5	27.0	23.0	27.0	23.5	---	---
11	12.5	10.0	22.5	18.5	23.5	23.0	24.5	23.5	27.5	24.0	---	---
12	14.0	10.5	21.0	19.5	23.5	22.5	25.5	23.0	26.5	24.0	---	---
13	16.0	12.5	19.5	18.0	23.0	22.0	26.5	23.5	25.5	24.0	---	---
14	16.5	14.0	20.0	16.5	23.5	22.5	24.5	23.5	26.0	23.5	---	---
15	17.5	14.0	19.5	16.5	23.5	22.5	25.5	23.5	26.5	23.0	---	---
16	17.0	16.0	20.0	15.5	24.5	23.5	27.0	23.5	26.0	24.0	---	---
17	17.5	16.0	19.0	15.0	24.0	23.5	28.0	24.5	25.5	23.5	---	---
18	17.5	16.5	19.0	14.5	24.0	23.0	27.0	24.0	26.5	23.5	---	---
19	19.0	17.0	20.5	14.5	23.5	23.0	27.0	24.5	27.0	24.0	---	---
20	20.0	18.0	20.5	18.5	25.0	23.0	27.5	24.5	26.5	23.0	---	---
21	20.5	18.5	22.0	18.0	26.0	23.0	27.5	24.5	27.5	23.5	---	---
22	20.5	18.5	23.5	19.5	25.0	22.5	27.5	24.5	26.0	22.0	---	---
23	20.5	18.5	24.0	21.0	24.5	21.0	28.0	24.5	25.5	22.0	---	---
24	21.5	19.0	22.5	20.5	25.5	21.5	28.5	25.0	25.5	21.5	---	---
25	---	---	22.0	20.0	26.0	22.0	28.5	25.0	26.0	22.0	---	---
26	---	---	20.5	19.5	25.0	21.5	27.5	25.5	27.0	23.0	---	---
27	---	---	22.5	20.0	25.5	21.5	27.5	24.5	27.5	23.0	---	---
28	---	---	22.0	20.5	25.0	22.5	28.0	25.5	26.5	23.5	---	---
29	---	---	22.5	21.0	25.5	22.0	28.5	25.5	27.0	24.0	---	---
30	---	---	22.5	20.0	25.0	21.5	28.0	25.5	26.0	24.0	---	---
31	---	---	23.0	19.5	---	---	27.5	24.5	26.5	23.5	---	---
MONTH	21.5	10.0	---	---	26.0	19.0	28.5	22.5	27.5	21.5	---	---

02425800 ALABAMA RIVER NEAR PINEBELT, ALA.

LOCATION.--Lat 32°09'23", long 87°12'55", in SW¼ sec. 27, T. 14 N., R. 9 E., Dallas County, on left bank on private road, 1.2 miles (1.9 km) upstream from Bogue Chitto Creek, and at mile 171 (275 km).

DRAINAGE AREA.--20,000 mi^2 (51,800 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN. 10...	6.7	1000	2500	110	50	10	2.7	3.5	1.6	8.4
FEB. 14...	6.7	180	500	180	20	10	2.4	4.0	1.3	8.0
MAR. 14...	6.0	--	610	290	100	13	2.7	4.1	1.4	7.6
APR. 12...	5.4	570	1400	490	10	7.6	1.8	2.3	1.3	5.2
MAY 23...	5.0	410	--	30	0	7.4	2.4	2.9	1.7	5.8
JUNE 20...	4.4	410	610	0	10	9.4	2.5	3.0	1.6	6.0
JULY 12...	3.2	360	670	250	10	10	2.4	4.3	1.6	7.6
AUG. 23...	4.2	220	260	70	40	10	3.0	4.5	1.8	6.8
SEP. 21...	4.3	140	360	30	65	7.8	2.7	5.6	1.8	5.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	IODIDE (I) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JAN. 10...	3.6	.1	--	--	.42	.006	.13	.2	.065	.17
FEB. 14...	3.8	.2	.400	.100	.24	.015	.08	.2	.026	.10
MAR. 14...	4.0	.2	--	--	--	--	.09	.4	.000	.11
APR. 12...	2.2	.1	--	--	--	.000	.03	.6	.000	.060
MAY 23...	3.6	.1	.700	.000	.20	.006	.00	.2	.003	.090
JUNE 20...	2.8	.1	--	--	--	--	.06	.2	.020	.090
AUG. 23...	4.8	.1	.000	.000	.17	.009	.00	.2	.003	.029
SEP. 21...	4.4	.1	--	--	--	--	.00	.8	.27	.42

DATE	TOTAL BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
JAN. 10...	--	56	55	.08	98	17	36	7	--	70	50	15
FEB. 14...	12	60	--	.08	19	21	35	4	.3	40	17	9
MAR. 14...	--	69	65	.09	33	26	44	5	--	5	15	7
APR. 12...	--	49	42	.07	49	17	27	6	.1	20	--	10
MAY 23...	20	48	--	.07	20	19	29	3	.1	35	20	11
JUNE 20...	--	58	53	.08	15	18	34	1	--	40	20	4
JULY 12...	--	58	53	.08	15	21	35	5	--	40	10	2
AUG. 23...	60	62	57	.08	12	21	38	4	--	20	7	5
SEP. 21...	--	61	52	.08	13	24	31	4	--	30	6	2

02425000 ALABAMA RIVER NEAR PINEBELT, ALA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL CARBON (C) (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	TANNIN AND LIGNIN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
JAN. 10...	--	--	--	--	--	7	--	--	--	--	--	--
FEB. 14...	5.5	6.5	12	0	.90	29	.20	0	0	<.3	<2	1
MAR. 14...	--	--	--	--	--	5	--	--	--	--	--	--
APR. 12...	--	--	--	--	--	15	--	--	--	--	--	--
MAY 23...	20	5.5	26	0	.00	19	.30	5	0	<.6	<1	0
JUNE 20...	--	--	--	--	--	16	--	--	--	--	--	--
JULY 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 23...	--	--	--	5	.00	3	.00	--	800	0	<2	<10
SEP. 21...	--	--	--	--	--	0	--	--	--	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)
JAN. 10...	--	--	--	--	--	--	--	--	--	--	--
FEB. 14...	--	0	--	0	0	<.3	<2	3	<10	.0	0
MAR. 14...	--	--	--	--	--	--	--	--	--	--	--
APR. 12...	--	--	--	--	--	--	--	--	--	--	--
MAY 23...	--	0	0	1	0	<.6	<1	1	.6	.0	1
JUNE 20...	--	--	--	--	--	--	--	--	--	--	--
JULY 12...	--	--	--	--	--	--	--	--	--	--	--
AUG. 23...	0	0	0	<25	<10	0	<2	<50	10	.1	--
SEP. 21...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
FEB. 14...	1	1	<.2	60	80	<2	<2	.06	2.0	50	<2
MAY 23...	3	1	<.1	--	0	<1	<1	.03	.0	20	<2
AUG. 23...	--	--	0	--	40	<20	2	.01	<1.0	10	<3

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
JAN. 10...	36	0	91	6.8	9.5	11.5
FEB. 14...	38	0	90	7.1	8.0	11.0
MAR. 14...	48	0	100	7.4	15.0	9.4
APR. 12...	26	0	76	7.4	15.0	9.8
MAY 23...	32	0	88	7.3	23.5	9.3
JUNE 20...	40	0	95	6.8	27.0	7.5
JULY 12...	37	0	96	6.7	28.0	6.3
AUG. 23...	42	0	104	7.2	28.0	5.0
SEP. 21 ...	40	0	89	7.3	22.3	9.3

02427700 TURKEY CREEK AT KIMBROUGH, ALA.

LOCATION.--Lat 32°01'15", long 87°33'30", in SE¼ sec. 10, T. 12 N., R. 5 E., Wilcox County, at gaging station on right bank on upstream side of bridge on county road, 0.3 mile (0.5 km) upstream from Southern Railway bridge, 0.6 mile (1.0 km) downstream from State Highway 5, 1 mile (1.6 km) south of Kimbrough, and 2 miles (3 km) upstream from mouth.

DRAINAGE AREA.--116 mi^2 (295 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1969, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 16...	6.0	12	270	84	12	3.3	13	2.8	--	--	6.0	14
NOV. 01...	10	--	--	--	--	--	--	--	31	0	--	7.4
28...	21	11	510	10	7.6	2.1	4.1	2.2	--	--	12	5.2
JAN. 09...	1430	12	380	100	4.8	1.7	3.1	1.4	--	--	12	3.2
MAR. 15...	200	17	300	40	6.1	1.8	4.0	.9	--	--	13	3.4
APR. 16...	120	16	270	40	6.8	1.8	5.0	1.2	--	--	9.6	3.6
MAY 22...	66	15	470	17	9.0	2.0	5.1	1.3	33	0	7.2	3.8
JUNE 26...	22	15	850	0	7.9	2.3	5.4	1.2	35	0	7.8	4.4
JULY 24...	18	10	610	60	5.7	2.1	3.8	2.1	--	--	5.6	3.8
SEP. 12...	13	11	770	60	8.7	2.1	6.4	2.2	31	0	9.0	5.3

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT. 16...	.1	.02	--	98	91	.13	44	0	.9	--	--	--
NOV. 01...	--	--	--	--	--	--	46	21	--	--	6.6	17.5
28...	.2	.05	--	62	55	.08	28	11	.3	--	--	--
JAN. 09...	.0	.02	--	44	43	.06	19	11	.3	--	--	--
MAR. 15...	.4	.20	--	--	56	.08	23	8	.4	--	--	--
APR. 16...	.2	.07	--	52	56	.07	25	6	.4	--	--	--
MAY 22...	.1	.20	--	--	60	.08	31	4	.4	84	7.3	--
JUNE 26...	.1	.09	--	70	62	.10	29	1	.4	95	6.9	--
JULY 24...	.1	.09	--	58	47	.08	23	1	.3	--	--	--
SEP. 12...	.2	--	.02	61	61	.08	30	5	.5	91	7.1	--

02427700 TURKEY CREEK AT KIMBROUGH, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
16...	--	55	0	150	6.5	20.5	6.3
25...	7.4	--	--	95	--	16.0	--
NOV.							
28...	--	17	0	73	6.4	10.5	9.8
DEC.							
12...	29	--	--	80	--	14.5	--
JAN.							
09...	--	10	0	53	6.6	8.0	10.8
24...	160	--	--	80	--	9.0	--
FEB.							
28...	54	--	--	100	--	11.0	--
MAR.							
15...	--	18	0	71	6.8	19.5	8.8
APR.							
03...	415	--	--	80	--	16.0	--
16...	--	24	0	58	6.9	17.0	10.4
MAY							
08...	849	--	--	70	--	18.0	--
22...	--	--	--	--	--	20.5	8.8
JUNE							
26...	--	--	--	--	--	25.0	7.3
JULY							
03...	19	--	--	100	--	27.0	--
24...	--	27	0	68	7.0	27.5	6.9
AUG.							
07...	27	--	--	80	--	27.0	--
SEP.							
12...	--	--	--	--	--	26.5	6.6
19...	8.4	--	--	80	--	20.0	--

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.
(International Hydrological Decade River Station)

LOCATION.--Lat 31°32'48", long 87°30'45", in sec. 25, T. 7 N., R. 5 E., Monroe County, at gaging station near left bank on downstream side of bridge on U.S. Highway 84 at Claiborne, 0.5 mile (0.8 km) downstream from Limestone Creek, 12 miles (19 km) west of Monroeville, and at mile 76.1 (122.4 km).

DRAINAGE AREA.--22,000 mi^2 (57,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1968 (daily), October 1969 to September 1973 (monthly).
Water temperatures: March 1966 to September 1968.

REMARKS.--Miscellaneous samples of chemical data published for water year 1965.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
19...	7260	--	--	--	--	--	--	--	--	--
DEC.										
01...	15800	4.8	--	60	20	13	3.9	8.6	2.0	--
JAN.										
12...	113000	--	--	260	--	--	--	--	--	--
FEB.										
01...	49900	7.1	--	380	10	8.7	2.6	3.3	1.4	--
MAR.										
01...	27400	7.0	--	290	30	9.4	2.7	3.5	1.3	--
APR.										
03...	136000	5.8	--	220	20	12	1.8	2.2	1.6	--
13...	132000	6.7	--	160	0	7.9	1.7	2.7	1.4	--
MAY										
15...	84600	6.0	260	210	40	8.5	1.7	2.6	1.5	--
JULY										
06...	18180	7.2	--	450	10	11	2.3	3.8	1.6	--
AUG.										
07...	8050	6.1	--	110	52	10	2.9	4.5	1.8	43
SEP.										
05...	7490	6.4	--	200	40	10	3.0	5.9	1.8	48

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
OCT.									
19...	--	--	--	--	.2	--	--	--	--
DEC.									
01...	--	9.2	7.4	.1	.2	--	--	--	--
JAN.									
12...	--	8.8	--	--	.2	--	.015	--	.47
FEB.									
01...	--	8.2	3.6	.2	.4	--	.009	--	.40
MAR.									
01...	--	7.4	3.4	.4	.2	--	--	--	--
APR.									
03...	--	5.2	2.8	.2	.4	--	--	.02	.45
13...	--	6.2	2.4	.2	.2	--	.012	.04	.19
MAY									
15...	--	5.4	2.0	.2	.2	--	.003	.04	.27
JULY									
06...	--	6.6	3.4	.1	.4	--	--	--	.26
AUG.									
07...	0	6.8	4.6	.1	--	.20	.037	--	.20
SEP.									
05...	0	6.8	2.2	.1	.2	--	.080	--	.30

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO
OCT.									
19...	--	.052	--	--	--	--	--	--	--
DEC.									
01...	--	.059	--	74	79	.10	49	1	.5
JAN.									
12...	--	.17	--	70	--	.10	--	--	--
FEB.									
01...	--	.075	--	59	54	.08	32	4	.3
MAR.									
01...	--	.042	--	55	55	.07	35	4	.3
APR.									
03...	--	.078	--	50	51	.07	37	8	.2
13...	.19	.11	--	50	43	.07	27	6	.2
MAY									
15...	.34	.12	--	44	44	.06	28	3	.2
JULY									
06...	--	.08	--	55	57	.07	37	6	.3
AUG.									
07...	--	.11	.007	57	59	.08	37	2	.3
SEP.									
05...	--	.082	--	74	61	.10	38	0	.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
19...	--	--	--	19	.7	530	12	--	--
DEC.									
01...	--	--	--	19	--	630	30	--	--
JAN.									
12...	--	--	--	12	2.7	11000	730	--	--
FEB.									
01...	--	--	26	13	--	2000	70	47	--
MAR.									
01...	--	--	--	20	1.6	270	10	3	--
APR.									
03...	--	--	60	22	1.3	1800	750	740	--
13...	--	--	35	6	1.2	800	110	--	--
MAY									
15...	--	--	35	20	.8	2600	52	16	--
JULY									
06...	--	--	17	6	--	700	11	29	--
AUG.									
07...	100	7.8	--	4	2.6	690	74	180	52
SEP.									
05...	--	7.0	9	20	1.4	210	120	28	--

DATE	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL PHOS-PHORUS IN BOT-TOM DE-POSITS (MG/KG)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT.											
19...	--	--	--	--	--	5	--	0	--	--	0
JAN.											
12...	--	--	--	--	--	5	--	0	--	--	20
APR.											
13...	--	--	--	--	--	9	--	0	--	--	0
MAY											
15...	--	--	--	--	--	4	--	3	1	--	0
AUG.											
07...	650	64	.0	10	.3	--	2	<10	1	0	0
SEP.											
05...	--	--	--	--	--	5	--	<10	0	--	0

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT. 19...	--	--	--	--	--	--	--	--	--	5	--
JAN. 12...	--	--	--	--	--	--	--	--	--	2	--
APR. 13...	--	--	--	--	--	--	--	--	--	1	--
MAY 15...	0	--	0	1	0	--	10	0	--	14	2
AUG. 07...	0	2	--	<25	0	<2	20	20	1	<50	10
SEP. 05...	9	--	--	<25	0	--	10	9	--	<50	10

DATE	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
OCT. 19...	--	.0	--	--	--	--	--	0	--	--
JAN. 12...	--	.0	--	--	--	--	--	0	--	--
APR. 13...	--	.0	--	--	--	--	--	0	--	--
MAY 15...	--	.1	.0	--	1	1	--	10	10	--
AUG. 07...	<5	.0	.0	.0	--	--	.5	20	0	5
SEP. 05...	--	.0	.0	--	--	--	--	60	0	--

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
APR. 03...	1.1	7.7	2.6	4.2	2.1	3.8	.03	.06
SEP. 05...	<.5	2.5	2.8	1.4	2.3	1.2	.04	.03

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 19...	--	47	0	112	6.9	24.0	8.7
NOV. 21...	16600	--	--	--	--	16.0	--
DEC. 01...	--	58	0	142	7.2	13.0	12.1
JAN. 12...	--	38	0	90	7.1	8.5	11.3
FEB. 01...	--	25	0	100	7.0	9.5	--
MAR. 01...	--	38	0	92	7.4	11.0	11.8
APR. 03...	--	36	0	81	7.3	16.0	8.2
13...	--	26	0	78	7.5	16.0	9.2
MAY 15...	--	31	0	70	7.4	21.0	8.1
JULY 06...	--	38	0	95	6.5	29.0	8.3
AUG. 07...	--	--	--	--	--	30.0	8.8
SEP. 05...	--	--	--	112	--	30.0	--

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES
(MAJOR COLUMN HEADINGS INDICATE SAMPLING POINTS)

			LEFT QUARTER			MIDSTREAM			RIGHT QUARTER		
DATE	TIME	DEPTH (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
MAY											
15...	2000	2	70	21.0	8.1	73	21.0	8.4	70	20.0	8.4
15...	2000	10	71	21.0	7.8	73	21.0	8.2	73	21.0	8.6
15...	2000	20	70	21.0	7.8	73	21.0	8.0	73	21.0	8.2
15...	2000	30	70	21.0	7.6	73	21.0	8.0	73	21.0	8.0
15...	2200	2	73	20.5	8.4	73	20.5	8.2	73	20.0	8.5
15...	2200	10	70	20.5	7.6	73	20.5	8.4	73	20.5	8.1
15...	2200	20	70	20.5	7.6	93	21.0	--	73	20.5	8.1
15...	2200	30	70	20.5	7.5	73	21.0	7.8	73	20.5	8.0
15...	2400	2	72	20.0	8.2	74	20.5	8.6	72	20.5	8.4
15...	2400	10	70	20.0	7.6	72	20.5	8.4	73	20.5	8.2
15...	2400	20	70	20.0	7.4	72	20.5	8.2	73	20.5	8.0
15...	2400	30	70	20.0	7.4	72	20.5	7.8	73	20.5	7.8
16...	0200	2	70	20.0	8.5	72	20.0	9.5	73	20.0	8.6
16...	0200	10	71	20.0	8.3	72	20.0	9.5	73	20.0	9.0
16...	0200	20	71	20.0	8.2	72	20.0	8.8	73	20.0	8.5
16...	0200	30	71	20.0	8.0	71	20.0	8.6	73	20.0	8.6
16...	0400	2	70	20.0	9.0	70	20.0	8.0	74	20.0	8.0
16...	0400	10	71	20.0	8.0	72	20.0	9.0	74	20.0	8.0
16...	0400	20	71	20.0	8.0	72	20.0	9.0	74	20.0	7.9
16...	0400	30	71	20.0	8.2	72	20.0	8.3	74	20.0	7.8
16...	0600	2	72	20.0	8.5	73	20.0	8.6	73	20.0	8.5
16...	0600	10	72	20.0	8.2	73	20.0	8.1	74	20.0	8.1
16...	0600	20	72	20.0	8.0	73	20.0	8.2	74	20.0	8.0
16...	0600	30	72	20.0	7.8	73	20.0	8.2	74	20.0	8.1
16...	0800	2	73	20.0	8.5	73	20.0	8.8	73	20.0	8.0
16...	0800	10	72	20.0	8.3	72	20.0	8.5	73	20.0	8.8
16...	0800	20	72	20.0	7.9	72	20.0	8.5	73	20.0	8.6
16...	0800	30	72	20.0	7.6	72	20.0	8.0	73	20.0	8.2
16...	1000	2	72	20.0	8.8	74	20.5	7.0	70	21.0	8.6
16...	1000	10	70	20.0	8.3	71	20.5	8.8	73	20.5	8.9
16...	1000	20	73	20.0	8.0	71	20.5	8.5	73	20.5	8.6
16...	1000	30	73	20.0	8.0	71	20.5	8.6	73	20.5	8.5
16...	1200	2	70	21.0	7.8	70	20.5	8.4	73	21.0	9.0
16...	1200	10	72	20.5	7.8	70	20.5	8.4	73	21.0	9.0
16...	1200	20	72	20.0	7.8	70	20.5	8.4	73	21.0	8.9
16...	1200	30	72	20.0	8.0	70	20.5	8.2	73	21.0	8.6
16...	1400	2	67	21.0	8.2	72	21.0	9.0	72	21.0	8.6
16...	1400	10	72	21.0	7.9	72	21.0	8.6	72	21.0	8.4
16...	1400	20	72	20.5	8.0	72	21.0	8.2	72	21.0	8.4
16...	1400	30	73	20.5	7.7	72	21.0	8.5	--	--	--
16...	1600	2	71	21.0	8.2	71	21.0	8.5	72	21.0	8.8
16...	1600	10	71	21.0	7.9	70	21.0	8.5	72	21.0	8.5
16...	1600	20	71	21.0	7.9	70	21.0	8.3	72	21.0	8.2
16...	1600	30	71	20.5	7.9	70	21.0	8.3	--	--	--
16...	1800	2	71	21.0	7.6	70	21.0	7.9	72	21.0	8.0
16...	1800	10	71	20.5	7.6	70	21.0	7.8	72	21.0	8.0
16...	1800	20	71	20.5	7.4	71	21.0	7.8	73	21.0	8.2
16...	1800	25	72	20.5	7.3	--	--	--	--	--	--
16...	1800	30	--	--	--	71	21.0	7.6	--	--	--

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES
(MAJOR COLUMN HEADINGS INDICATE SAMPLING POINTS)

			LEFT QUARTER			MIDSTREAM			RIGHT QUARTER		
DATE	TIME	DEPTH (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.											
08...	1500	2	102	30.0	8.8	104	30.0	9.0	94	30.5	8.8
08...	1500	5	102	30.0	8.8	104	30.0	9.0	102	30.0	8.8
08...	1500	10	102	30.0	8.8	104	30.0	8.9	102	30.0	8.8
08...	1500	15	102	30.0	8.5	104	30.0	8.7	102	30.0	8.9
08...	1500	20	102	30.0	8.5	104	30.0	8.7	--	--	--
08...	1500	25	102	30.0	8.6	--	--	--	--	--	--
08...	1700	2	103	30.5	9.3	96	30.5	9.4	104	30.5	9.6
08...	1700	5	103	30.0	9.5	104	30.5	9.5	104	30.5	9.5
08...	1700	10	104	30.0	9.3	104	30.5	9.2	104	30.5	8.8
08...	1700	15.	104	30.0	8.9	104	30.5	9.0	--	--	--
08...	1700	20	104	30.0	9.3	103	30.5	9.2	--	--	--
08...	1900	2	97	30.0	9.4	97	30.0	9.4	92	30.0	9.2
08...	1900	5	100	30.0	9.5	97	30.0	9.5	102	30.0	9.3
08...	1900	10	100	30.0	9.1	99	30.0	9.1	104	30.0	8.2
08...	1900	15	100	30.0	8.6	99	30.0	9.0	104	30.0	9.0
08...	1900	20	100	30.0	8.5	102	30.0	9.0	--	--	--
08...	2100	2	104	30.0	8.9	95	30.0	8.9	85	30.0	8.8
08...	2100	5	104	30.0	8.8	97	30.0	9.0	100	30.0	8.7
08...	2100	10	104	30.0	8.9	98	30.0	8.9	102	30.0	8.6
08...	2100	15	104	30.0	8.7	100	30.0	8.5	104	30.0	8.8
08...	2100	20	104	30.0	8.8	102	30.0	8.8	--	--	--
08...	2300	2	104	30.0	9.0	90	30.0	8.7	102	30.0	8.4
08...	2300	5	104	30.0	8.8	102	30.0	8.8	102	30.0	8.5
08...	2300	10	104	30.0	8.7	104	30.0	8.4	103	30.0	8.5
08...	2300	15	104	30.0	8.5	104	30.0	8.2	103	30.0	8.2
08...	2300	20	104	30.0	8.6	104	30.0	8.8	--	--	--
08...	2300	25	--	--	--	100	30.0	8.5	--	--	--
09...	0100	2	104	30.0	9.0	104	30.0	8.9	100	30.0	8.8
09...	0100	5	103	30.0	8.9	104	30.0	9.0	104	30.0	8.6
09...	0100	10	104	30.0	9.0	104	30.0	9.0	104	30.0	8.7
09...	0100	15	104	30.0	9.1	104	30.0	9.0	104	30.0	8.8
09...	0100	20	104	30.0	9.1	104	30.0	8.5	104	30.0	8.8
09...	0100	25	104	30.0	8.5	98	30.0	8.7	--	--	--
09...	0300	2	103	29.5	8.5	103	30.0	8.6	103	30.0	8.6
09...	0300	5	104	29.5	8.8	103	30.0	8.5	103	30.0	8.4
09...	0300	10	104	29.5	8.7	103	30.0	8.4	103	30.0	8.4
09...	0300	15	104	29.5	8.8	103	30.0	8.6	103	30.0	8.3
09...	0300	20	103	29.5	8.5	103	30.0	8.5	102	30.0	8.4
09...	0300	25	--	--	--	103	30.0	8.7	--	--	--
09...	0500	2	102	29.5	8.6	104	30.0	7.9	104	30.0	8.5
09...	0500	5	102	29.5	8.5	104	30.0	7.9	103	30.0	8.4
09...	0500	10	102	29.5	8.4	104	30.0	7.9	103	30.0	8.2
09...	0500	15	102	29.5	7.8	104	30.0	7.8	104	30.0	8.2
09...	0500	20	103	29.5	8.2	104	30.0	8.0	--	--	--
09...	0500	25	--	--	--	102	30.0	7.5	--	--	--
09...	0700	2	102	30.0	8.3	104	30.0	8.4	104	30.0	8.1
09...	0700	5	102	30.0	8.3	104	30.0	8.3	104	30.0	8.2
09...	0700	10	102	30.0	8.4	104	30.0	8.3	104	30.0	8.0
09...	0700	15	102	29.5	7.9	104	30.0	7.9	104	30.0	8.1
09...	0700	20	102	29.5	7.9	104	30.0	8.3	--	--	--
09...	0900	2	100	30.0	8.9	103	30.0	8.6	102	30.0	8.7
09...	0900	5	100	30.0	8.9	102	30.0	8.2	102	30.0	8.6
09...	0900	10	100	30.0	8.7	102	30.0	8.3	103	30.0	8.5
09...	0900	15	102	30.0	8.4	102	30.0	8.3	103	30.0	8.0
09...	0900	20	102	30.0	8.5	102	30.0	8.7	--	--	--
09...	1100	2	102	30.0	8.5	102	30.0	8.7	102	30.0	8.6
09...	1100	5	102	30.0	8.7	102	30.0	8.5	102	30.0	8.4
09...	1100	10	102	30.0	8.6	102	30.0	8.6	102	30.0	8.4
09...	1100	15	102	30.0	8.5	102	30.0	8.0	102	30.0	8.4
09...	1100	20	102	30.0	8.3	102	30.0	8.2	--	--	--
09...	1100	21	--	--	--	98	30.0	8.4	--	--	--
09...	1300	2	104	30.0	8.3	94	30.0	8.5	95	30.5	8.7
09...	1300	5	102	30.0	8.4	104	30.0	8.4	104	30.5	8.3
09...	1300	10	104	30.5	8.0	104	30.0	8.2	104	30.5	7.9
09...	1300	15	102	30.0	8.3	104	30.0	8.0	104	30.0	8.2
09...	1300	20	103	30.0	8.4	104	30.0	8.4	--	--	--
09...	1500	2	96	31.0	8.6	98	31.0	8.5	94	31.0	8.5
09...	1500	5	98	31.0	8.6	102	31.0	8.4	104	31.0	8.5
09...	1500	10	104	31.0	8.4	102	31.0	8.6	104	31.0	8.4
09...	1500	15	104	30.5	8.5	102	30.5	8.3	104	31.0	8.3
09...	1500	20	104	30.5	8.3	102	30.5	8.6	--	--	--

02429500 ALABAMA RIVER AT CLAIBORNE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES
(MAJOR COLUMN HEADINGS INDICATE SAMPLING POINTS)

			LEFT QUARTER			MIDSTREAM			RIGHT QUARTER		
DATE	TIME	DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
SEP.											
06...	0900	2	110	28.0	8.7	110	28.0	9.0	109	28.0	8.9
06...	0900	5	110	28.0	8.7	110	28.0	9.0	110	28.0	8.8
06...	0900	10	110	28.0	8.6	110	28.0	8.7	110	28.0	8.8
06...	0900	15	--	--	--	110	28.0	8.9	110	28.0	9.0
06...	1100	2	110	29.0	9.2	109	29.0	9.2	109	28.5	9.1
06...	1100	5	110	29.0	9.0	109	29.0	9.5	109	28.5	9.2
06...	1100	10	110	29.0	8.8	109	29.0	9.2	109	28.0	9.1
06...	1100	15	--	--	--	109	29.0	9.1	109	28.0	8.9
06...	1300	2	110	29.0	9.2	109	29.0	9.2	105	29.0	9.2
06...	1300	5	110	29.0	9.1	109	29.0	9.4	109	28.5	8.8
06...	1300	10	110	29.0	8.8	109	29.0	9.0	109	28.5	9.0
06...	1300	15	--	--	--	109	29.0	9.0	109	28.5	8.9
06...	1300	20	--	--	--	--	--	--	109	28.5	9.3
06...	1500	2	105	28.5	9.2	110	29.0	9.2	110	29.0	9.2
06...	1500	5	109	28.5	8.9	110	29.3	9.2	110	29.0	9.2
06...	1500	10	109	28.5	8.8	109	29.0	9.2	110	29.0	9.2
06...	1500	15	109	28.5	8.8	109	29.0	8.8	--	--	--
06...	1700	2	103	28.5	9.2	106	29.0	8.3	108	29.0	9.6
06...	1700	5	103	28.5	9.1	109	29.0	9.0	108	28.5	9.2
06...	1700	10	105	28.5	8.7	109	29.0	8.8	108	29.0	8.9
06...	1700	15	107	28.5	9.2	110	29.0	9.0	--	--	--
06...	1900	2	105	28.5	9.1	103	29.0	9.1	110	29.0	9.4
06...	1900	5	110	28.5	9.0	109	29.0	9.0	110	29.0	9.3
06...	1900	10	110	28.5	8.9	110	29.0	9.1	110	29.0	9.2
06...	1900	15	--	--	--	110	29.0	9.2	--	--	--
06...	2100	2	102	28.5	8.9	108	29.0	9.1	110	29.0	9.2
06...	2100	5	102	28.5	9.1	110	29.0	9.1	110	29.0	9.0
06...	2100	10	105	28.5	8.9	110	29.0	8.9	110	29.0	8.8
06...	2100	15	110	28.0	8.7	110	29.0	8.7	--	--	--
06...	2100	18	--	--	--	110	29.0	8.7	--	--	--
06...	2300	2	102	28.5	9.2	105	29.0	8.8	110	29.0	9.1
06...	2300	5	102	28.0	9.0	105	29.0	8.5	110	28.5	8.7
06...	2300	10	105	28.0	8.7	105	28.5	8.5	110	28.5	8.6
06...	2300	15	108	28.0	8.8	105	28.5	8.8	--	--	--
06...	2300	19	--	--	--	108	28.5	8.9	--	--	--
07...	0100	2	100	28.5	9.2	92	29.0	9.3	104	28.5	9.2
07...	0100	5	110	28.0	8.5	110	28.5	8.9	104	28.5	9.0
07...	0100	10	110	28.0	8.2	110	28.5	8.9	104	28.0	8.8
07...	0100	15	110	28.0	8.2	110	28.5	8.8	--	--	--
07...	0300	2	101	28.0	9.2	109	28.5	8.9	110	28.5	8.8
07...	0300	5	103	28.0	9.3	109	28.5	8.6	110	28.5	8.7
07...	0300	10	103	28.0	8.6	110	28.0	8.6	110	28.5	8.5
07...	0300	15	105	28.0	8.8	110	28.5	8.5	--	--	--
07...	0300	20	105	28.0	8.7	--	--	--	--	--	--
07...	0500	2	110	28.0	8.5	110	28.0	8.6	104	28.0	8.6
07...	0500	5	110	28.0	8.7	110	28.5	8.6	105	28.0	8.4
07...	0500	10	110	28.0	8.5	110	28.5	8.4	105	28.0	8.2
07...	0500	15	--	--	--	110	28.5	8.1	--	--	--
07...	0700	2	110	28.0	9.2	100	28.5	9.0	110	28.5	8.4
07...	0700	5	110	28.0	8.8	110	28.5	8.5	110	28.5	8.2
07...	0700	10	110	28.0	8.2	110	28.5	8.2	112	28.5	7.5
07...	0700	15	110	28.0	8.5	110	28.5	8.5	--	--	--
07...	0900	2	95	28.5	9.3	109	28.5	9.1	108	28.5	9.0
07...	0900	5	110	28.0	8.9	111	28.5	9.0	108	28.5	8.7
07...	0900	10	110	28.0	8.7	111	28.5	9.1	109	28.5	8.6
07...	0900	15	--	--	--	111	28.5	8.5	--	--	--

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.

LOCATION.--Lat 33°06'45", long 88°16'18", in sec. 7, T. 24 N., R. 2 W., Pickens County, at gaging station near left bank on downstream side of bridge on State Highway 17, 200 ft (61 m) upstream from Alabama, Tennessee, and Northern Railroad bridge, 1.2 miles (1.9 km) northeast of Cochrane, 2.2 miles (3.5 km) downstream from Boguechitto Creek, 7 miles (11 km) southwest of Aliceville, and at mile 271.6 (436.7 km).

DRAINAGE AREA.--5,990 mi^2 (15,500 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973.
Temperature: October 1971 to April 1973.

EXTREMES.--

Period of record:
Specific conductance (1971-72): Maximum, 232 micromhos June 29, 1972; minimum, 62 micromhos Jan. 10, 1972.
Temperature (1971-72): Maximum, 32.5°C July 25, 1972; minimum, 5.5°C Feb. 5, 1972.

REMARKS.--No specific conductance or temperature records Nov. 16-30, Dec. 6-11, 30-31, Jan. 1-2, 9-19, Mar. 13, 18-26, 29, and Apr. 1-3 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT. 25...	2310	7.3	100	--	13	1.6	13	3.0	15	26	.1
NOV. 16...	3070	8.1	370	20	14	1.3	4.7	3.2	13	7.6	.3
JAN. 04...	30300	6.0	80	40	10	1.3	3.0	2.1	12	4.4	.1
FEB. 09...	10900	9.1	220	50	12	1.2	3.1	1.3	9.4	4.2	.2
MAR. 19...	61600	3.5	660	20	11	.7	2.5	1.7	4.4	2.4	.1
APR. 16...	7710	--	190	--	--	--	--	--	--	--	--
MAY 21...	5100	--	1200	--	--	--	--	--	--	--	--
JUNE 25...	4910	--	--	--	--	--	--	--	--	--	--
JULY 23...	3950	--	--	--	--	--	--	--	--	--	--
SEP. 05...	1734	--	210	--	--	--	--	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT. 25...	--	.40	--	.024	.45	.11	.033	86	92	.12
NOV. 16...	--	.20	--	.012	.17	.27	.039	76	71	.10
JAN. 04...	.3	.20	.006	.003	.76	.30	.072	81	71	.11
FEB. 09...	.2	.16	.000	--	.15	.001	.013	70	57	.10
MAR. 19...	.3	--	.003	--	.50	.090	.023	53	45	.07
APR. 16...	.07	--	.006	--	.23	.11	--	55	--	.07
MAY 21...	.2	--	.015	--	.32	.12	--	56	--	.08
JUNE 25...	.5	--	--	--	--	.15	--	--	--	--
JULY 23...	.5	--	--	--	--	.19	--	--	--	--
SEP. 05...	.4	--	.000	--	.43	.23	--	79	--	.11

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE. COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)
OCT. 25...	39	21	.9	25	20	27	2.7	1000	77	.05
NOV. 16...	41	12	.3	75	60	40	1.8	6000	720	--
JAN. 04...	51	13	.2	100	550	21	2.1	37000	1900	.00
FEB. 09...	35	9	.2	35	25	17	1.3	3500	--	--
MAR. 19...	30	1	.2	100	80	8	1.5	2500	190	--
APR. 16...	--	--	--	--	--	6	--	1700	240	.00
MAY 21...	--	--	--	--	--	16	--	5000	160	.00
JUNE 25...	--	--	--	--	--	11	--	18000	76	--
JULY 23...	--	--	--	--	--	11	--	2000	96	--
SEP. 05...	--	--	--	--	--	24	--	1500	23	.00

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 25...	4	1	0	4	.0	0
JAN. 04...	1	0	0	3	.4	10
APR. 16...	5	0	0	1	.0	0
MAY 21...	5	0	0	0	.0	10
SEP. 05...	1	<10	0	50	.0	200

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 25...	33	0	148	7.1	17.5	9.6
NOV. 16...	36	0	114	7.0	12.0	9.5
JAN. 04...	47	0	128	7.3	9.0	10.0
FEB. 09...	41	0	80	6.8	9.5	10.4
MAR. 19...	36	0	76	7.2	15.0	9.2
APR. 16...	--	--	92	7.5	16.0	9.4
MAY 21...	--	--	86	7.2	21.0	11.9
JUNE 25...	--	--	85	7.2	26.5	7.0
JULY 23...	--	--	96	6.9	28.5	6.9
SEP. 05...	--	--	128	6.9	27.5	7.8

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C, OCTOBER 1972 TO APRIL 1973
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	140	109	126	132	102	117	103	97	100	---	---	---
2	136	108	116	101	88	94	96	97	98	---	---	---
3	177	109	132	125	99	108	99	95	98	117	97	100
4	177	131	151	163	110	132	95	89	92	112	97	105
5	140	131	135	155	143	149	109	90	99	118	99	112
6	143	126	134	154	131	142	---	---	---	100	89	95
7	129	109	118	129	109	117	---	---	---	87	82	85
8	110	101	104	109	101	104	---	---	---	80	71	76
9	121	104	114	147	106	119	---	---	---	---	---	---
10	124	120	121	164	133	148	---	---	---	---	---	---
11	124	112	117	171	134	150	---	---	---	---	---	---
12	113	110	112	138	127	133	109	97	100	---	---	---
13	115	111	112	140	129	136	104	97	99	---	---	---
14	122	113	117	139	128	134	110	98	103	---	---	---
15	129	121	124	128	115	123	104	86	94	---	---	---
16	130	117	123	---	---	---	86	75	82	---	---	---
17	128	118	123	---	---	---	75	64	71	---	---	---
18	121	110	114	---	---	---	64	60	63	---	---	---
19	129	118	124	---	---	---	59	57	58	---	---	---
20	133	125	127	---	---	---	66	57	60	126	99	114
21	149	134	143	---	---	---	87	64	75	119	88	102
22	139	135	137	---	---	---	88	87	87	117	85	103
23	137	135	141	---	---	---	87	85	86	113	89	105
24	136	118	127	---	---	---	87	86	86	96	75	80
25	147	116	132	---	---	---	88	86	87	77	74	76
26	169	116	143	---	---	---	88	86	87	76	73	75
27	169	146	156	---	---	---	94	87	92	[illegible]	76	79
28	171	140	158	---	---	---	93	87	91	90	77	84
29	142	100	120	---	---	---	96	90	94	83	78	78
30	147	123	137	---	---	---	---	---	---	77	73	75
31	149	133	142	---	---	---	---	---	---	78	72	75
MONTH	177	100	128	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	102	71	79	97	90	92	---	---	---
2	104	82	94	100	93	95	---	---	---
3	100	86	96	106	99	103	---	---	---
4	81	65	71	106	99	102	83	73	77
5	66	63	64	139	109	126	78	69	73
6	64	62	63	143	114	122	83	67	78
7	66	61	63	144	115	122	137	80	96
8	78	67	72	144	115	129	137	92	111
9	83	78	81	131	105	116	133	119	126
10	128	95	110	105	101	104	119	100	108
11	94	80	86	131	102	121	108	98	104
12	79	73	75	120	110	112	112	103	108
13	75	68	72	---	---	---	109	100	105
14	100	75	89	108	82	86	103	96	99
15	100	85	91	106	88	100	105	97	101
16	84	59	71	88	65	77	102	98	100
17	59	56	57	64	58	61	---	---	---
18	57	53	55	---	---	---	---	---	---
19	53	49	51	---	---	---	---	---	---
20	50	48	49	---	---	---	---	---	---
21	49	48	48	---	---	---	---	---	---
22	54	49	51	---	---	---	---	---	---
23	63	55	58	---	---	---	---	---	---
24	75	64	69	---	---	---	---	---	---
25	85	76	83	61	52	56	---	---	---
26	87	85	86	62	59	61	---	---	---
27	91	86	89	61	58	59	---	---	---
28	83	81	82	61	57	59	---	---	---
29	---	---	---	---	---	---	---	---	---
30	---	---	---	91	89	90	---	---	---
31	---	---	---	90	85	88	---	---	---
MONTH	128	48	73	---	---	---	---	---	---

02444500 TOMBIGBEE RIVER NEAR COCHRANE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO APRIL 1973
(DIGITAL RECORDER, ONE MEASUREMENT PER HOUR)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	22.5	17.5	16.0	8.5	8.5	---	---
2	22.5	20.5	17.5	17.0	8.5	8.0	---	---
3	22.0	21.0	18.0	17.5	8.5	8.0	9.5	9.0
4	22.0	21.0	18.0	17.0	9.0	8.5	9.0	8.0
5	22.5	21.0	17.5	16.5	10.5	9.0	9.0	9.0
6	22.0	21.0	16.5	16.0	---	---	9.0	8.0
7	22.0	21.0	16.5	16.0	---	---	8.0	7.0
8	22.0	20.5	15.5	15.0	---	---	7.0	6.5
9	21.0	20.0	15.0	14.0	---	---	---	---
10	21.0	20.0	15.0	14.0	---	---	---	---
11	22.0	20.0	15.0	13.5	---	---	---	---
12	22.5	20.5	14.0	13.5	10.0	9.5	---	---
13	22.5	20.0	14.0	13.0	10.5	9.5	---	---
14	23.0	20.5	13.5	12.5	10.5	9.0	---	---
15	23.0	21.0	12.5	11.5	9.0	8.0	---	---
16	23.0	20.5	---	---	8.0	7.0	---	---
17	22.5	21.0	---	---	7.0	6.0	---	---
18	23.0	22.0	---	---	6.0	5.5	---	---
19	23.5	21.0	---	---	5.5	5.5	---	---
20	19.0	19.0	---	---	6.5	5.5	9.5	8.5
21	18.0	17.5	---	---	7.5	6.5	10.0	9.5
22	17.5	17.0	---	---	7.5	7.5	11.0	10.5
23	18.5	17.5	---	---	8.0	7.5	11.0	10.5
24	18.0	16.5	---	---	8.0	7.5	10.5	9.5
25	17.0	16.5	---	---	7.5	7.0	9.5	9.0
26	16.5	15.5	---	---	7.5	6.5	9.0	8.5
27	16.5	15.5	---	---	7.0	6.5	8.0	8.0
28	17.0	16.0	---	---	7.0	6.5	8.0	8.0
29	16.0	15.5	---	---	7.5	7.0	8.0	7.5
30	15.5	15.0	---	---	---	---	7.5	7.0
31	16.5	15.0	---	---	---	---	7.0	6.5
MONTH	23.5	15.0	---	---	---	---	---	---

	FEBRUARY		MARCH		APRIL	
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	11.5	10.5	16.5	16.0
2	8.5	7.5	12.0	11.0	---	---
3	9.0	8.5	13.0	12.0	---	---
4	9.0	8.5	13.0	12.5	16.5	16.0
5	8.5	8.0	13.5	13.0	16.0	15.5
6	9.0	8.0	14.5	13.5	15.5	15.0
7	10.0	9.0	16.0	14.5	15.0	13.5
8	10.5	10.0	16.0	15.5	14.0	13.5
9	10.0	9.0	16.5	16.0	13.5	13.5
10	9.0	7.0	17.0	16.5	13.5	13.0
11	7.0	5.5	17.5	17.0	13.5	13.0
12	5.5	5.0	17.5	17.0	13.0	12.5
13	5.0	4.5	18.5	17.5	13.5	13.0
14	6.5	5.0	19.0	18.5	14.0	13.5
15	7.0	6.5	18.5	16.0	15.0	14.0
16	7.0	6.5	16.0	15.0	15.0	15.0
17	6.0	5.5	15.5	14.5	---	---
18	5.5	5.5	15.5	15.0	---	---
19	5.5	5.0	15.5	14.5	---	---
20	6.0	5.5	15.0	14.5	---	---
21	6.5	6.0	15.0	14.5	---	---
22	7.0	6.5	15.0	14.5	---	---
23	8.0	7.0	15.0	14.5	---	---
24	8.5	7.5	15.0	14.5	---	---
25	9.5	8.5	14.5	14.0	---	---
26	10.5	9.5	14.0	13.5	---	---
27	11.0	10.0	13.5	13.5	---	---
28	11.0	10.5	14.0	13.5	---	---
29	---	---	15.0	14.0	---	---
30	---	---	16.0	14.5	---	---
31	---	---	16.5	16.5	---	---
MONTH	11.0	4.5	19.0	10.5	---	---

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.

LOCATION.--Lat 32°49'30", long 88°09'24", in SE¼ sec. 2, T. 21 N., R. 2 W., Sumter County, at gaging station on downstream side of bridge on State Highway 39 at Gainesville, 2 miles (3 km) downstream from Noxubee River, and at mile 234.4 (377.1 km).

DRAINAGE AREA.--8,700 mi^2 (22,500 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1967, July 1971 to March 1973 (discontinued).
Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 28.5°C July 29-30, Aug. 9-12; minimum, 4.5°C Jan. 14-17.

Period of record:
Water temperatures: Maximum (1962-69, 1971-73), 35.0°C July 25, 1972; minimum, 2.0°C Feb. 1, 1966.

REMARKS.--Miscellaneous samples of chemical data published for water year 1968. No specific conductance data Oct. 1-25 because of recorder malfunction.

CHEMICAL ANALYSES, OCTOBER 1972 TO MARCH 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 25...	1900	9.1	90	--	15	1.6	8.2	2.7	20	13
NOV. 16...	5430	8.2	370	20	14	1.4	4.7	3.1	15	6.8
JAN. 04...	29000	6.6	120	30	19	1.4	3.2	2.1	12	5.2
FEB. 09...	10500	7.1	10	30	12	1.3	2.9	1.4	10	4.2
MAR. 19...	53100	3.8	720	40	14	.9	1.8	1.7	4.8	2.8

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 25...	.1	.4	--	.023	--	.32	.082	.023	80	89
NOV. 16...	.1	--	.10	--	.003	.18	.21	.029	74	73
JAN. 04...	.1	.4	.20	.006	.003	.62	.26	.059	86	75
FEB. 09...	.2	--	.10	--	.000	.26	.16	.003	58	56
MAR. 19...	.1	--	.30	--	.000	.56	.11	.026	63	50

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 25...	.12	44	16	.6	25	25	30	1.4	1400	28
NOV. 16...	.10	41	10	.3	75	45	15	1.5	3200	360
JAN. 04...	.12	54	13	.2	80	360	20	2.4	13000	1000
FEB. 09...	.08	36	10	.2	10	2	15	1.2	4300	580
MAR. 19...	.09	39	7	.1	150	80	21	2.7	1600	88

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 17...	780	--	--	--	--	23.5	--
25...	--	32	0	134	7.2	18.0	8.6
NOV. 16...	--	37	0	105	7.1	11.5	9.8
JAN. 04...	--	50	0	122	7.2	10.0	10.4
FEB. 09...	--	40	0	88	6.8	9.5	10.6
MAR. 19...	--	39	0	90	7.1	15.5	9.2

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), OCTOBER TO NOVEMBER 1972
(DIGITAL RECORDER, ONE MEASUREMENT PER WEEK)

	OCTOBER			NOVEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	155	135	146
2	---	---	---	134	106	119
3	---	---	---	107	82	91
4	---	---	---	119	80	92
5	---	---	---	161	103	125
6	---	---	---	160	146	145
7	---	---	---	143	133	138
8	---	---	---	130	104	115
9	---	---	---	104	87	93
10	---	---	---	152	87	109
11	---	---	---	152	133	142
12	---	---	---	175	136	154
13	---	---	---	130	107	118
14	---	---	---	140	105	127
15	---	---	---	138	118	130
16	---	---	---	117	106	111
17	---	---	---	---	---	---
18	---	---	---	---	---	---
19	---	---	---	---	---	---
20	---	---	---	---	---	---
21	---	---	---	---	---	---
22	---	---	---	---	---	---
23	---	---	---	---	---	---
24	---	---	---	---	---	---
25	---	---	---	---	---	---
26	144	116	128	---	---	---
27	146	111	126	---	---	---
28	178	136	165	---	---	---
29	181	158	169	---	---	---
30	170	102	134	---	---	---
31	146	115	139	---	---	---
MONTH	---	---	---	---	---	---

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.5	24.5	16.5	16.0	6.5	6.0	11.0	11.0	8.0	7.5	13.5	13.0
2	24.5	23.5	17.0	16.5	6.5	6.5	11.0	11.0	9.0	8.0	14.0	13.5
3	23.5	23.0	17.5	17.0	6.5	6.0	11.0	10.5	9.0	9.0	15.0	14.0
4	23.5	23.0	17.5	17.5	6.5	6.0	10.5	10.0	9.0	9.0	15.5	15.0
5	23.5	23.5	17.5	17.0	7.0	6.5	10.0	10.0	9.0	9.0	15.5	15.5
6	23.5	23.5	17.0	16.5	8.0	7.0	10.0	10.0	9.0	9.0	16.5	15.5
7	23.5	23.5	16.5	16.5	8.0	8.0	10.0	9.0	9.5	9.0	17.5	16.5
8	23.5	23.0	16.5	15.5	8.0	7.5	9.0	8.0	10.5	9.5	18.5	17.5
9	23.0	22.5	15.5	15.0	9.0	7.5	8.0	7.5	10.5	10.0	19.0	18.5
10	22.5	22.5	15.0	15.0	9.5	9.0	7.5	6.5	10.0	9.5	19.0	19.0
11	22.5	22.0	15.0	14.5	9.5	8.5	6.5	6.0	9.5	7.5	19.5	19.0
12	22.5	22.5	14.5	14.0	9.5	9.0	6.0	5.5	7.5	7.0	20.0	19.5
13	23.0	22.5	14.0	14.0	9.0	8.5	5.5	5.0	8.0	7.5	20.0	20.0
14	24.0	22.5	14.0	13.5	8.5	8.5	5.0	4.5	8.0	7.5	20.5	20.0
15	23.5	23.5	13.5	12.5	8.5	8.5	4.5	4.5	9.0	8.0	20.0	19.5
16	24.0	23.5	12.5	11.5	8.5	7.5	5.0	4.5	9.0	9.0	20.0	20.0
17	23.5	23.5	11.5	10.0	7.5	6.5	5.0	4.5	9.0	8.5	20.0	18.5
18	24.0	23.5	10.0	9.5	6.5	5.5	6.0	5.0	8.5	8.0	18.5	17.5
19	24.0	22.5	9.5	9.0	5.5	5.0	8.0	6.0	8.0	7.5	17.5	17.0
20	22.5	21.0	9.0	8.5	5.0	5.0	9.5	8.0	7.5	7.5	17.0	17.0
21	21.0	19.0	8.5	8.0	5.5	5.0	10.5	9.5	8.0	7.5	17.0	17.0
22	19.0	17.5	8.0	7.5	7.0	5.5	11.0	10.5	8.5	8.0	17.0	17.0
23	19.0	17.5	7.5	7.5	7.5	7.0	11.0	11.0	9.0	8.5	17.0	17.0
24	18.0	18.0	7.5	7.0	7.5	7.5	11.0	11.0	9.5	9.0	17.0	17.0
25	18.0	17.5	7.0	6.5	7.5	7.5	11.0	10.0	10.5	9.5	17.0	16.5
26	17.5	16.5	6.5	6.5	7.5	7.5	10.0	9.5	11.5	10.5	17.0	16.5
27	16.5	16.0	6.5	6.5	7.5	7.0	9.5	9.5	13.0	11.5	16.5	16.5
28	16.0	16.0	6.5	6.5	7.0	6.5	9.5	9.5	13.0	13.0	16.5	16.0
29	16.0	16.0	6.5	6.0	6.5	6.5	9.5	9.0	---	---	16.0	16.0
30	16.0	16.0	6.0	5.5	7.0	6.5	9.0	8.5	---	---	16.0	16.0
31	16.0	16.0	---	---	6.5	6.0	8.5	8.5	---	---	16.0	16.0
MONTH	26.5	16.0	17.5	5.5	9.5	5.0	11.0	4.5	13.0	7.0	20.5	13.0

02449000 TOMBIGBEE RIVER AT GAINESVILLE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	17.0	17.0	22.0	22.0	26.0	26.0	27.0	26.0	27.0	26.0
2	17.5	17.0	17.0	17.0	22.0	21.5	27.0	26.0	27.0	26.5	26.0	26.0
3	17.0	17.0	17.5	17.0	22.5	22.0	27.5	27.0	27.0	26.5	26.0	26.0
4	17.0	17.0	18.0	17.5	23.0	22.5	28.0	27.5	26.5	26.0	26.0	26.0
5	17.0	17.0	18.0	18.0	23.5	23.0	28.0	28.0	26.5	26.0	26.0	26.0
6	17.0	16.0	18.0	18.0	23.5	23.5	28.0	27.5	26.5	26.0	26.0	25.5
7	16.0	15.0	18.0	17.5	24.0	23.5	27.5	25.5	27.0	26.5	26.0	25.5
8	15.0	14.5	18.0	17.5	23.5	23.0	25.5	25.5	27.5	27.0	26.0	25.5
9	14.5	14.5	18.5	18.0	23.5	23.0	25.5	25.5	28.5	27.5	27.0	26.0
10	14.5	14.0	19.0	18.5	24.5	23.5	25.5	25.0	28.5	28.0	27.5	27.0
11	14.0	14.0	20.0	19.0	25.0	24.5	25.0	24.5	28.5	28.0	28.0	27.5
12	14.0	14.0	20.5	20.0	25.0	25.0	25.0	24.5	28.5	28.0	28.0	27.0
13	14.0	14.0	20.5	20.5	25.0	25.0	25.0	25.0	28.0	27.5	27.5	27.0
14	14.5	14.0	20.5	20.0	25.5	25.0	25.0	25.0	27.5	25.5	27.5	27.0
15	15.5	14.5	20.0	19.5	25.5	25.5	25.5	25.0	26.0	25.0	27.0	26.5
16	15.5	15.0	19.5	19.5	25.5	25.5	26.0	25.5	26.5	26.0	27.0	26.0
17	15.5	15.0	19.5	19.0	25.5	25.0	26.0	25.5	26.5	25.5	26.5	26.0
18	16.0	15.5	19.5	19.0	25.0	25.0	26.0	25.5	25.5	24.5	26.0	25.5
19	17.0	16.0	19.5	19.0	25.0	25.0	26.0	25.5	24.5	24.0	25.5	24.5
20	17.5	17.0	20.0	19.5	25.0	24.0	26.0	26.0	25.0	24.5	25.5	25.0
21	18.5	17.5	21.0	20.0	24.0	23.5	26.0	26.0	26.0	25.0	25.5	25.0
22	19.5	18.5	21.5	21.0	23.5	23.5	26.5	26.0	26.0	25.5	25.5	25.0
23	19.5	19.5	22.0	21.5	23.5	23.5	27.0	26.0	26.0	25.5	26.0	25.5
24	19.5	19.5	22.0	22.0	24.0	23.5	27.5	27.0	26.0	25.5	26.5	26.0
25	19.5	19.0	22.5	22.0	25.0	24.0	28.0	27.5	26.0	26.0	27.0	26.5
26	19.0	19.0	23.0	22.5	25.5	25.0	28.0	27.5	26.5	25.5	27.5	26.5
27	19.0	18.5	23.0	23.0	26.0	25.5	27.5	27.0	26.5	26.0	27.5	27.5
28	18.5	18.0	23.0	22.0	26.0	26.0	28.0	27.0	27.5	26.5	27.5	27.0
29	18.0	17.5	22.5	22.0	26.5	26.0	28.5	28.0	27.5	27.0	27.5	27.0
30	17.5	17.0	22.5	22.0	26.5	26.0	28.5	28.0	27.0	27.0	27.5	27.0
31	---	---	22.0	22.0	---	---	28.0	27.0	27.0	27.0	---	---
MONTH	19.5	14.0	23.0	17.0	26.5	21.5	28.5	24.5	28.5	24.0	28.0	24.5

02450000 MULBERRY FORK NEAR GARDEN CITY, ALA.

LOCATION.--Lat 33°59'42", long 86°44'56", in NE¼ sec. 16, T. 12 S., R. 2 W., Blount County, at gaging station on left bank near downstream side of bridge on U.S. Highway 31 (old), 1,000 ft (305 m) downstream from Louisville & Nashville Railroad bridge, 1 mile (1.6 km) southwest of Garden City, 5.5 miles (8.8 km) downstream from Mud Creek, and at mile 79.2 (127,4 km).

DRAINAGE AREA.--368 mi^2 (953 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
04...	40	--	--	--	--	--	--	--	38	0	--	4.8
31...	72	4.0	110	51	12	2.1	4.8	4.4	--	--	11	6.0
NOV.												
09...	77	--	--	--	--	--	--	--	51	0	--	9.6
DEC.												
05...	178	4.5	--	10	8.6	1.9	4.7	2.4	--	--	6.0	6.2
JAN.												
17...	630	5.2	120	40	5.5	1.4	3.4	1.2	--	--	5.2	3.2
MAR.												
30...	764	5.1	70	40	5.4	1.0	2.2	1.0	--	--	4.4	3.6
MAY												
01...	1060	5.2	80	30	4.9	1.2	2.6	1.6	--	--	5.0	3.2
JUNE												
04...	446	5.8	30	20	5.5	1.3	2.5	1.7	--	--	3.2	3.2
JULY												
13...	177	3.5	350	20	7.6	1.4	2.5	3.1	--	--	6.0	3.6
SEP.												
24...	27	1.5	60	20	19	2.7	18	9.5	82	0	9.6	11

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
04...	--	--	--	--	--	--	40	9	--	--	7.2
31...	.2	.90	--	68	66	.09	39	9	.3	--	--
NOV.											
09...	--	--	--	--	--	--	54	12	--	--	7.0
DEC.											
05...	.4	.82	--	49	51	.07	30	4	.4	--	--
JAN.											
17...	.0	1.0	--	34	36	.05	20	9	.3	--	--
MAR.											
30...	.1	.60	--	35	33	.05	18	5	.2	--	--
MAY											
01...	.1	.30	--	34	32	.05	17	6	.3	--	--
JUNE											
04...	.0	.80	--	37	38	.05	19	1	.2	62	--
JULY											
13...	.1	1.4	--	--	45	.06	25	7	.2	--	--
SEP.											
24...	.3	--	1.5	113	113	.15	59	0	1.0	200	7.8

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	--	--	--	118	--	19.0	--
31...	--	37	0	126	7.0	18.0	9.3
NOV.							
09...	--	--	--	150	--	13.5	--
DEC.							
05...	--	28	0	105	6.8	11.0	11.1
JAN.							
17...	--	14	0	70	6.7	7.0	12.2
MAR.							
26...	1680	--	--	135	--	13.5	--
30...	--	16	0	59	7.2	14.0	11.2
APR.							
30...	1570	--	--	50	--	17.0	--
MAY							
01...	--	14	0	42	6.8	18.0	9.6
JUNE							
04...	--	22	0	--	7.2	23.5	9.2
05...	392	--	--	60	--	22.5	--
JULY							
09...	115	--	--	65	--	23.0	--
13...	--	15	0	70	6.9	25.0	7.6
SEP.							
21...	19	--	--	--	--	25.0	--
24...	--	--	--	--	--	26.0	5.4

02450250 SIPSEY FORK NEAR GRAYSON, ALA.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°17'07", long 87°23'56", in NE¼ sec. 8, T. 9 S., R. 8 W., Winston County, at gaging station 0.1 mile (0.2 km) downstream from bridge on Cranal Road, 0.5 mile (0.8 km) downstream from Borden Creek, 4.5 miles (7.2 km) west of Grayson, and 14 miles (22 km) northeast of Haleyville.

DRAINAGE AREA.--91.3 mi² (236.4 km²).

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
DEC. 08...	79	6.9	--	90	40	18	1.4	1.3	.9	4.4	1.6	.3
FEB. 22...	128	5.4	--	30	10	9.8	1.1	.9	.8	4.4	1.4	.1
MAY 04...	120	6.7	110	60	20	13	1.1	1.2	.6	4.0	1.0	.1
JULY 13...	84	7.0	--	40	10	25	1.6	1.4	.8	4.2	1.2	.1

DATE	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SUSPENDED SEDIMENT (MG/L)
DEC. 08...	.02	62	65	.08	51	7	.1	--	1.2	450	1
FEB. 22...	.02	45	40	.06	29	3	.1	--	2.0	20	2
MAY 04...	.5	52	51	.07	37	3	.1	99	.6	400	35
JULY 13...	.02	84	84	.11	69	0	.1	--	.5	2100	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 04...	<1	<1	<1	<1	1	<1	<10

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 12...	4.7	--	--	102	--	15.0	--
NOV. 02...	114	--	--	100	--	17.5	--
DEC. 08...	--	54	0	114	7.2	9.0	11.8
JAN. 02...	203	--	--	75	--	9.0	--
FEB. 13...	201	--	--	--	--	6.0	--
22...	--	32	0	64	7.1	5.5	12.4
MAY 04...	--	42	0	--	7.4	13.0	10.2
JUNE 28...	90	--	--	--	--	24.0	--
JULY 13...	--	86	0	136	7.6	21.0	10.0
AUG. 01...	15	--	--	115	--	24.5	--
SEP. 07...	4.9	--	--	80	--	23.0	--

02456500 LOCUST FORK AT SAYRE, ALA.

LOCATION.--Lat 33°42'35", long 86°59'00", in NW¼ sec. 29, T. 15 S., R. 4 W., Jefferson County, at gaging station at right bank at downstream side of bridge on county road at Sayre, 1.5 miles (2.4 km) downstream from Camp Creek, and at mile 33.9 (54.5 km).

DRAINAGE AREA.--887 mi^2 (2,297 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
11...	119	6.9	110	400	20	13	6.0	3.4	--	--	54	4.4
NOV.												
06...	342	6.9	50	300	18	10	5.9	2.4	--	--	41	4.6
DEC.												
18...	3740	5.9	130	80	8.4	3.8	2.9	1.9	--	--	18	3.6
JAN.												
22...	11600	6.1	780	60	7.2	3.8	2.6	1.7	22	0	16	2.6
MAR.												
05...	4540	6.3	120	20	9.6	3.8	2.4	1.4	--	--	17	2.4
26...	4820	6.4	170	40	9.8	4.1	2.3	1.0	--	--	17	2.6
MAY												
07...	1190	6.0	20	80	12	6.5	3.7	1.6	38	0	27	2.6
JUNE												
18...	1050	7.2	100	170	12	6.5	3.5	1.5	--	--	25	2.6
JULY												
23...	514	7.1	380	50	12	7.4	3.7	2.4	42	0	29	2.2
AUG.												
30...	110	5.3	80	230	23	14	7.0	2.0	83	0	54	3.0

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
11...	.1	.30	--	136	141	.18	100	48	.3	--	--
NOV.											
06...	.2	.02	--	121	120	.16	86	35	.3	--	--
DEC.											
18...	.2	.00	--	* 58	58	.08	37	21	.2	--	--
JAN.											
22...	.5	.20	--	--	52	.07	34	16	.2	--	6.5
MAR.											
05...	.4	.20	--	60	58	.08	40	16	.2	--	--
26...	.2	.60	--	56	60	.08	42	19	.2	--	--
MAY											
07...	.1	.60	--	--	81	.11	57	26	.2	142	6.8
JUNE											
18...	.1	.60	--	93	88	.13	57	25	.2	--	--
JULY											
23...	.1	.40	--	--	87	.12	61	27	.2	--	7.4
AUG.											
30...	.0	--	.21	159	151	.22	120	47	.3	270	7.5

02456500 LOCUST FORK AT SAYRE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
04...	337	--	--	169	--	19.5	--
11...	--	64	0	238	7.4	20.5	8.8
NOV.							
06...	--	62	0	190	7.3	16.0	8.8
DEC.							
18...	--	20	0	104	6.8	7.5	12.2
JAN.							
22...	--	--	--	89	--	10.0	13.0
MAR.							
05...	--	29	0	111	7.6	12.5	11.0
16...	4820	--	--	95	--	13.5	--
26...	--	28	0	95	7.2	13.5	10.6
APR.							
30...	4080	--	--	85	--	17.0	--
MAY							
07...	--	--	--	--	--	17.0	8.9
JUNE							
18...	--	39	0	142	7.2	25.0	9.1
JULY							
09...	566	--	--	90	--	24.5	--
23...	--	--	--	140	--	28.0	7.3
AUG.							
30...	--	--	--	--	--	27.0	7.7
SEP.							
21...	88	--	--	--	--	23.5	--

02458000 LOCUST FORK AT PALOS, ALA.

LOCATION.--Lat 33°38'20", long 87°03'30", in NW¼ sec. 22, T. 16 S., R. 5 W., Jefferson County, at bridge on county highway, 5.2 miles (8.4 km) downstream from Fivemile Creek, 0.8 mile (1.3 km) southwest of Palos, and at mile 22.0 (35.4 km).

DRAINAGE AREA.--1,040 mi² (2,690 km²).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV. 20...	1500	8.3	550	1600	190	370	21	11	12	3.8	66
DEC. 14...	2300	7.1	640	920	70	160	13	6.4	6.9	3.4	39
JAN. 26...	4090	6.7	320	670	20	140	10	5.7	5.1	1.9	31
FEB. 27...	1090	5.1	70	550	80	270	15	8.0	8.5	1.9	47
MAR. 26...	5690	5.7	0	1700	100	90	9.3	4.9	3.9	1.8	26
APR. 13...	2500	6.0	180	520	110	180	12	6.4	6.4	1.9	38
MAY 21...	9000	3.7	7300	1800	210	10	7.4	3.1	2.3	2.1	15
JUNE 18...	1200	5.2	1000	600	90	250	14	9.1	8.0	2.6	50
JULY 11...	1200	5.4	580	780	210	240	19	10	12	3.4	62
AUG. 22...	180	5.6	240	470	120	480	26	15	19	6.8	69
SEP. 20...	100	4.7	140	660	180	630	30	21	26	11	130

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	IODIDE (I) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED ORTHOPHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 20...	5.0	.2	.000	.000	.01	.024	1.0	.5	.023	.14
DEC. 14...	4.2	.1	--	--	--	--	.23	.7	.007	.10
JAN. 26...	2.8	.1	--	--	--	--	.17	.3	.010	.049
FEB. 27...	4.0	.2	.300	.100	.23	.006	.04	.7	.003	.016
MAR. 26...	2.4	.2	--	--	--	--	.01	.4	.000	.020
APR. 13...	3.0	.1	--	--	--	.010	.03	.6	.010	.020
MAY 21...	2.2	.2	.600	.000	1.2	.015	.01	.3	.003	.007
JUNE 18...	3.2	.1	--	--	--	--	.31	.6	.000	.12
JULY 11...	3.6	.2	--	--	--	--	.03	.9	.000	.033
AUG. 22...	7.0	1.0	.000	.030	.18	.260	.07	.9	.000	.039
SEP. 20...	9.4	1.2	--	--	--	--	3.0	.5	.004	.029

[illegible] LOCUST FORK AT PALOS, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL BORON (B) (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
NOV. 20...	20	180	162	.22	32	62	98	46	.3	20	20	15
DEC. 14...	--	99	101	.13	36	22	59	31	--	20	15	8
JAN. 26...	--	92	78	.13	33	20	49	27	--	5	10	4
FEB. 27...	5	114	113	.16	3	25	71	37	.1	10	4	8
MAR. 26...	--	73	69	.10	71	16	43	21	--	10	2	3
APR. 13...	--	93	92	.13	9	25	57	31	.1	10	6	3
MAY 21...	22	54	54	.07	720	17	31	13	.1	25	210	35
JUNE 18...	--	119	119	.16	19	26	73	39	--	5	15	3
JULY 11...	--	148	148	.20	22	33	89	42	--	20	10	2
AUG. 22...	80	226	201	.31	5	43	130	19	6.9	15	3	--
SEP. 20...	--	294	279	.40	11	61	160	73	--	25	5	2

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL CARBON (C) (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	TANNIN AND LIGNIN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV. 20...	3.0	15	18	0	--	5	.30	10	0	<1	<3	0
DEC. 14...	--	--	--	--	--	6	--	--	--	--	--	--
JAN. 26...	--	--	--	--	--	10	--	--	--	--	--	--
FEB. 27...	.0	8.0	8.0	1	.00	10	.00	0	200	<.5	<3	0
MAR. 26...	--	--	--	--	--	7	--	--	--	--	--	--
APR. 13...	--	--	--	--	--	15	--	--	--	--	--	--
MAY 21...	7.0	5.0	12	1	.00	14	.60	3	50	<.6	<1	0
JUNE 18...	--	--	--	--	--	22	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	6	--	--	--	--	--	--
AUG. 22...	4.0	--	--	2	.00	2	.00	--	400	<2	<6	<10
SEP. 20...	--	--	--	--	--	0	--	--	--	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)
NOV. 20...	<3	0	--	6	0	<2	<3	0	10	.0	2
DEC. 14...	--	--	--	--	--	--	--	--	--	--	--
JAN. 26...	--	--	--	--	--	--	--	--	--	--	--
FEB. 27...	--	0	0	3	10	<1	<3	2	10	.0	0
MAR. 26...	--	--	--	--	--	--	--	--	--	--	--
APR. 13...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	0	0	6	0	<.5	<1	11	2	.1	0
JUNE 18...	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--
AUG. 22...	<2	0	0	<25	<10	<2	<6	<50	25	.0	--
SEP. 20...	--	--	--	--	--	--	--	--	--	--	--

02456000 LOCUST FORK AT PALOS, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
NOV.											
20...	8	0	<.3	120	--	<3	3	<.6	.0	60	<5
FEB.											
27...	1	0	<.3	60	90	<3	<3	.04	.0	40	<5
MAY											
21...	11	2	<.2	--	29	<1	4	--	.0	30	<2
AUG.											
22...	--	--	0	75	80	<4	<3	.08	<2.0	100	<7

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
20...	64	0	216	7.1	10.0	10.1
DEC.						
14...	36	0	157	7.1	13.5	9.6
JAN.						
26...	27	0	136	7.3	9.0	11.0
FEB.						
27...	42	0	180	7.3	10.5	10.0
MAR.						
26...	27	0	112	7.6	14.0	9.0
APR.						
13...	78	0	110	7.7	14.0	10.0
MAY						
21...	22	0	116	7.0	19.0	8.2
JUNE						
18...	42	0	190	7.5	25.0	6.8
JULY						
11...	58	0	250	7.6	26.0	6.3
AUG.						
22 ...	136	0	365	8.2	20.0	6.5
SEP.						
20 ...	128	0	460	7.7	23.0	6.6

[illegible] VILLAGE CREEK NEAR ADAMSVILLE, ALA.

LOCATION.--Lat 33°36'20", long 87°00'23", in E½ sec. 36, T. 16 S., R. 5 W., Jefferson County, at gaging station on right bank at downstream side of highway bridge, 0.2 mile (0.3 km) upstream from Canoe Creek, 3.5 miles (5.6 km) west of Adamsville, and 8 miles (13 km) upstream from mouth.

DRAINAGE AREA.--84.1 mi² (217.8 km²).

PERIOD OF RECORD.--Chemical analyses: February 1972 to June 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1966 and 1967.

CHEMICAL ANALYSES, OCTOBER 1972 TO JUNE 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.											
11...	93	12	170	150	40	12	19	9.9	--	--	76
NOV.											
08...	860	12	100	240	40	13	25	9.9	--	--	78
DEC.											
18...	574	10	30	440	36	11	17	7.3	--	--	68
JAN.											
22...	1760	11	100	510	31	12	11	6.1	--	--	72
MAR.											
05...	379	1.8	70	370	41	8.0	11	6.5	--	--	62
26...	525	10	60	400	38	11	14	4.3	80	0	75
MAY											
07...	101	16	70	0	44	16	19	.8	--	--	98
JUNE											
18...	83	12	50	10	39	13	22	9.0	110	0	82

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
11...	14	2.0	1.8	245	247	.33	150	61	.7	--	--
NOV.											
08...	17	3.4	7.5	281	278	.38	150	72	.9	--	--
DEC.											
18...	11	1.6	5.0	232	222	.32	140	64	.6	--	--
JAN.											
22...	7.0	6.5	.70	--	192	.26	130	75	.4	--	--
MAR.											
05...	7.6	6.0	2.3	--	196	.26	140	73	.4	--	--
26...	9.0	1.3	4.5	236	222	.32	140	75	.5	--	7.9
MAY											
07...	12	2.1	2.7	266	276	.36	180	90	.6	424	--
JUNE											
18...	15	3.8	1.5	263	257	.36	150	60	.8	--	--

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
11...	109	0	398	7.4	20.0	6.1
NOV.						
08...	149	0	462	7.4	16.0	5.6
DEC.						
18...	126	0	400	8.0	8.5	9.5
JAN.						
22...	87	0	372	7.4	12.0	11.2
MAR.						
05...	82	0	330	7.4	14.5	8.2
26...	--	--	360	7.9	14.0	9.1
MAY						
07...	110	0	--	7.5	19.0	8.6
JUNE						
18...	--	--	442	--	27.0	10.2

02460505 VILLAGE CREEK AT PORTER, ALA.

LOCATION.--Lat 33°37'38", long 87°03'13", in SW¼ sec. 22, T. 16 S., R. 5 W., at bridge on county highway, 0.1 mile (0.2 km) northwest of Porter, Ala., and 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.--97.3 mi^2 (252.0 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1973.
Water temperatures: August 1972 to September 1973.

REMARKS.--No specific conductance, pH, turbidity, dissolved oxygen, or water temperature data for some days because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV. 20...	200	12	510	770	310	520	37	13	21	8.6	73	14
DEC. 14...	400	11	450	910	60	560	39	16	18	7.6	96	12
JAN. 26...	432	9.2	1200	1300	10	530	29	12	9.8	5.1	81	5.8
FEB. 27...	500	5.8	70	640	80	620	42	16	20	8.5	120	13
MAR. 26...	498	11	0	1300	70	400	32	11	12	5.7	74	7.6
APR. 13...	278	8.6	490	710	40	340	33	13	13	6.0	90	7.2
MAY 21...	220	10	410	680	90	360	42	14	18	8.2	100	10
JUNE 18...	83	7.7	320	580	200	150	42	18	23	10	110	16
JULY 11...	233	7.0	170	400	40	70	37	11	18	7.7	74	11
AUG. 22...	175	7.0	20	310	50	70	38	12	15	8.8	68	11
SEP. 20...	72	8.3	100	270	20	50	47	15	26	12	100	19

DATE	DISSOLVED FLUORIDE (F) (MG/L)	BROMIDE (BR) (MG/L)	IODIDE (I) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED ORTHOPHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
NOV. 20...	2.4	.000	.000	.02	.19	5.6	1.2	1.4	1.8	90	315
DEC. 14...	1.6	--	--	--	--	.90	1.0	.95	1.0	--	266
JAN. 26...	.6	--	--	--	.12	.77	.7	.046	.29	--	196
FEB. 27...	1.5	.10	.10	.46	2.7	.10	1.1	.12	.36	100	298
MAR. 26...	1.2	--	--	--	--	.00	.5	.10	.26	--	198
APR. 13...	.7	--	--	--	.12	.04	1.8	.023	.19	--	216
MAY 21...	2.8	.60	.000	.63	.15	.47	1.6	.36	.62	80	262
JUNE 18...	2.6	--	--	--	--	.20	2.7	.78	1.4	--	294
JULY 11...	1.3	--	--	--	--	.00	4.1	.80	.10	--	231
AUG. 22...	2.5	.020	.030	.31	.11	.03	2.5	.46	.75	330	227
SEP. 20...	3.1	--	--	--	--	.05	3.2	1.6	1.6	--	314

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUS-PENDED SOLIDS (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
NOV. 20...	247	.34	8	36	146	46	.9	15	7	16
DEC. 14...	263	.36	23	93	160	72	--	30	9	9
JAN. 26...	--	.27	42	42	120	69	--	3	25	7
FEB. 27...	--	.41	2	69	170	90	.2	5	4	30
MAR. 26...	194	.27	27	36	130	65	--	5	1	16
APR. 13...	197	.29	30	38	140	83	.1	5	5	7
MAY 21...	260	.36	9	49	160	80	.2	15	6	6
JUNE 18...	292	.40	7	58	180	96	--	10	5	3
JULY 11...	231	.31	5	49	140	63	--	5	2	6
AUG. 22...	226	.31	2	49	140	52	5.2	8	2	45
SEP. 20...	306	.43	4	57	180	78	--	30	5	2

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL CARBON (C) (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	TANNIN AND LIGNIN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV. 20...	3.0	31	34	2.0	--	6.1	.40	10	200	<2	<6	0
DEC. 14...	--	--	--	--	--	6.4	--	--	--	--	--	--
JAN. 26...	--	--	--	--	--	10	--	--	--	--	--	--
FEB. 27...	7.0	19	26	1.4	.00	12	.10	0	0	<2	<6	0
MAR. 26...	--	--	--	--	--	--	--	--	--	--	--	--
APR. 13...	--	--	--	--	--	16	--	--	--	--	--	--
MAY 21...	6.0	21	27	2.0	.00	12	.40	4	50	<2	<5	0
JUNE 18...	--	--	--	--	--	22	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 22...	5.0	--	--	3.0	.00	5.0	.00	--	0	<2	<5	<10
SEP. 20...	--	--	--	--	--	.0	--	--	--	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)
NOV. 20...	<6	0	--	2	10	<3	<6	10	40	.0	1
DEC. 14...	--	--	--	--	--	--	--	--	--	--	--
JAN. 26...	--	--	--	--	--	--	--	--	--	--	--
FEB. 27...	--	0	0	7	10	<3	<6	3	80	.0	2
MAR. 26...	--	--	--	--	--	--	--	--	--	--	--
APR. 13...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	0	0	3	0	<3	<5	.3	45	.0	2
JUNE 18...	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	--	--	--
AUG. 22...	<2	0	0	<25	<10	<2	<4	<50	20	.0	--
SEP. 20...	--	--	--	--	--	--	--	--	--	--	--

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED NATURAL URANIUM (U) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
NOV. 20...	11	0	<.6	180	--	<6	<6	<.4	1.0	80	<8
FEB. 27...	17	2	<.6	120	140	<6	<6	.08	.0	110	<11
MAY 21...	14	.2	<.6	160	160	<5	<4	.08	.0	110	<10
AUG. 22...	--	--	0	80	4300	<4	<3	.1	<2.0	60	<7

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV. 20...	145	0	442	7.1	12.0	7.7
DEC. 14...	117	0	432	7.3	13.5	7.0
JAN. 26...	63	0	320	7.4	11.0	9.8
FEB. 27...	98	0	463	7.5	12.0	10.4
MAR. 26...	80	0	340	7.5	14.0	9.2
APR. 13...	36	0	247	7.1	16.0	10.2
MAY 21...	98	0	455	7.8	21.0	8.2
JUNE 18...	103	0	455	8.1	27.0	8.2
JULY 11...	94	0	372	7.4	25.0	6.5
AUG. 22...	108	0	325	7.9	24.0	6.9
SEP. 20...	132	0	500	8.6	21.0	8.6

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), AUGUST 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN
1	---	---	470	440
2	---	---	460	430
3	---	---	445	435
4	---	---	435	430
5	---	---	---	---
6	---	---	---	---
7	---	---	410	385
8	---	---	440	385
9	---	---	405	380
10	505	460	385	375
11	500	450	395	380
12	470	440	445	395
13	465	435	445	415
14	440	430	420	400
15	490	430	460	400
16	460	440	440	410
17	465	430	480	380
18	483	450	---	---
19	505	450	---	---
20	465	445	---	---
21	470	430	---	---
22	490	455	435	420
23	495	470	420	405
24	490	465	415	400
25	490	465	425	400
26	480	430	470	400
27	440	420	---	---
28	430	420	405	365
29	480	430	380	415
30	475	430	400	360
31	455	440	---	---
MONTH	---	---	---	---

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	400	390	---	---	---	---	350	300	505	425
2	---	---	420	400	---	---	---	---	340	320	515	450
3	---	---	435	410	---	---	---	---	350	320	470	460
4	---	---	420	415	---	---	---	---	360	335	502	382
5	---	---	430	425	---	---	---	---	345	320	410	350
6	350	340	425	425	410	400	---	---	370	340	355	325
7	350	340	480	425	420	400	---	---	375	350	370	330
8	360	360	470	440	415	410	---	---	400	365	395	370
9	360	360	470	435	410	385	---	---	370	360	405	385
10	380	360	450	440	410	385	---	---	370	350	394	387
11	400	370	460	440	410	385	---	---	360	355	409	347
12	400	380	440	440	400	385	---	---	395	360	405	320
13	420	400	465	420	400	390	---	---	390	375	320	292
14	420	380	445	420	425	400	---	---	---	---	333	292
15	425	380	445	435	---	---	---	---	---	---	351	317
16	425	420	455	435	---	---	---	---	---	---	---	---
17	440	425	460	440	---	---	---	---	---	---	---	---
18	450	420	445	425	---	---	---	---	---	---	---	---
19	440	390	430	410	---	---	---	---	---	---	---	---
20	420	390	---	---	---	---	---	---	---	---	---	---
21	420	400	435	415	---	---	---	---	---	---	327	317
22	400	400	430	415	---	---	---	---	400	365	369	320
23	400	390	430	415	---	---	---	---	400	375	380	365
24	410	400	430	415	---	---	---	---	415	385	387	347
25	430	400	440	380	---	---	---	---	420	395	---	---
26	420	400	400	395	---	---	---	---	465	420	---	---
27	430	390	410	400	---	---	---	---	465	435	---	---
28	430	420	---	---	---	---	---	---	435	415	---	---
29	430	420	---	---	---	---	---	---	---	---	347	340
30	430	430	---	---	---	---	360	340	---	---	380	347
31	445	390	---	---	---	---	365	330	---	---	---	---
MONTH	450	340	480	380	---	---	---	---	---	---	---	---

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), AUGUST 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	351	317	367	345	421	408	401	340	469	428
2	---	---	387	347	399	360	419	386	394	358	437	433
3	311	292	405	369	422	384	426	390	383	358	435	428
4	349	311	405	358	434	395	421	407	380	358	430	412
5	345	273	423	383	439	425	420	373	380	358	457	430
6	321	305	423	401	429	415	431	373	369	355	437	425
7	331	264	430	412	431	419	380	365	387	355	442	423
8	302	264	416	222	426	397	371	354	423	365	437	412
9	327	266	248	215	430	420	375	344	401	369	416	401
10	321	289	270	248	454	420	385	374	398	376	416	409
11	320	276	301	267	443	422	385	350	419	391	423	405
12	337	328	---	---	434	406	369	339	416	391	449	423
13	---	---	---	---	424	406	368	341	398	376	435	412
14	388	345	---	---	423	412	368	220	391	344	440	412
15	400	378	---	---	421	405	370	264	358	333	419	401
16	438	400	---	---	430	420	390	364	347	320	412	405
17	439	413	---	---	439	430	---	---	337	324	409	401
18	445	403	---	---	---	---	---	---	365	317	440	405
19	431	397	---	---	453	362	---	---	362	324	425	405
20	435	426	---	---	425	389	---	---	337	330	---	---
21	431	402	---	---	431	377	---	---	369	330	437	433
22	421	403	427	413	407	382	---	---	---	---	442	430
23	422	404	413	398	412	383	---	---	380	340	430	423
24	427	402	422	395	407	396	---	---	412	369	425	412
25	403	336	412	387	441	409	---	---	387	376	442	416
26	368	299	437	394	450	414	---	---	391	380	430	412
27	328	296	435	173	473	450	---	---	401	373	440	416
28	297	288	358	276	456	401	---	---	464	401	428	419
29	308	292	285	253	431	412	---	---	440	430	435	344
30	317	308	316	285	426	408	---	---	435	428	---	---
31	---	---	346	313	---	---	355	343	435	428	---	---
MONTH	445	264	---	---	473	345	---	---	464	317	469	344

PH (UNITS), AUGUST 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN
1	---	---	8.0	7.4
2	---	---	8.4	7.6
3	---	---	8.2	7.2
4	---	---	7.8	7.0
5	---	---	---	---
6	---	---	---	---
7	---	---	7.4	7.1
8	---	---	7.3	7.1
9	---	---	7.2	6.9
10	7.9	7.6	7.3	6.9
11	7.7	7.3	7.5	7.0
12	7.3	7.0	7.8	7.2
13	---	---	7.8	7.2
14	---	---	7.5	7.1
15	---	---	7.5	7.0
16	---	---	7.2	6.8
17	8.8	7.8	6.9	6.7
18	9.1	7.8	---	---
19	8.3	7.3	---	---
20	8.1	7.2	---	---
21	7.3	6.9	---	---
22	8.4	6.9	7.2	6.5
23	8.5	8.2	6.5	6.4
24	8.3	7.7	6.5	6.3
25	7.7	6.7	6.6	6.2
26	6.7	6.6	6.5	6.2
27	6.9	6.7	---	---
28	7.0	6.8	6.9	6.7
29	7.0	6.8	6.7	6.4
30	7.1	7.0	6.4	6.2
31	7.5	7.0	---	---
MONTH	---	---	---	---

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

PH (UNITS), AUGUST 1972 TO SEPTEMBER 1973--Continued

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.8	7.6	---	---	---	---	---	---	8.1	7.3
2	---	---	7.7	7.6	---	---	---	---	---	---	7.6	7.3
3	---	---	7.6	7.6	---	---	---	---	---	---	7.6	7.3
4	---	---	7.5	7.4	---	---	---	---	7.9	7.8	7.3	7.2
5	---	---	7.4	7.2	---	---	---	---	7.8	7.6	7.3	7.1
6	7.4	6.8	7.3	7.2	7.4	7.2	---	---	7.7	7.6	7.2	7.1
7	7.4	6.8	7.5	7.3	7.5	7.4	---	---	7.7	7.6	7.3	7.1
8	7.4	7.0	7.6	7.5	7.4	7.4	---	---	7.6	7.6	7.3	7.1
9	7.3	6.9	7.5	7.4	7.4	7.3	---	---	7.8	7.6	7.5	7.3
10	7.5	6.9	7.4	7.3	7.5	7.2	---	---	7.8	7.7	7.5	7.3
11	7.4	7.0	7.4	7.3	7.3	7.1	---	---	7.9	7.7	7.4	7.2
12	7.2	7.0	7.4	7.2	7.6	7.2	---	---	7.9	7.7	7.3	7.0
13	7.2	6.9	7.3	7.2	7.6	7.5	---	---	7.9	7.8	7.2	7.0
14	7.5	7.1	7.5	7.3	7.5	7.3	---	---	---	---	7.0	6.9
15	7.3	6.9	7.4	7.2	---	---	---	---	---	---	7.2	6.9
16	7.4	7.0	7.2	7.2	---	---	---	---	---	---	---	---
17	8.4	7.2	7.2	7.2	---	---	---	---	---	---	---	---
18	8.4	8.2	7.2	7.2	---	---	---	---	---	---	---	---
19	8.3	8.2	7.3	7.2	---	---	---	---	---	---	---	---
20	8.4	8.2	7.2	7.1	---	---	---	---	---	---	---	---
21	8.2	8.2	7.2	7.1	---	---	---	---	---	---	7.1	7.0
22	8.2	8.1	7.2	7.1	---	---	---	---	7.9	7.3	7.1	7.0
23	8.3	8.2	7.2	7.2	---	---	---	---	7.8	7.3	7.1	7.0
24	8.5	8.4	7.3	7.1	---	---	---	---	8.1	7.3	7.0	6.9
25	8.3	8.1	7.8	7.2	---	---	---	---	8.1	7.3	---	---
26	8.1	8.0	7.7	7.2	---	---	---	---	7.9	7.3	---	---
27	8.6	8.0	7.5	7.3	---	---	---	---	7.8	7.3	---	---
28	8.6	8.3	---	---	---	---	---	---	---	---	7.4	7.2
29	8.2	8.0	---	---	---	---	---	---	---	---	7.4	7.2
30	7.9	7.8	---	---	---	---	---	---	---	---	---	---
31	8.0	7.8	---	---	---	---	---	---	---	---	---	---
MONTH	8.6	6.8	7.8	7.1	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.4	7.2	8.0	7.5	8.2	7.2	7.6	7.4	8.1	7.5
2	---	---	8.2	7.4	8.4	7.5	7.5	7.3	7.5	7.4	8.0	7.4
3	---	---	8.6	7.4	7.8	7.5	7.5	7.2	7.4	7.3	8.3	7.5
4	---	---	7.9	7.4	7.8	7.5	7.2	7.0	7.5	7.2	8.7	7.6
5	---	---	8.2	7.4	7.8	7.5	7.0	6.9	7.4	7.2	8.7	7.7
6	---	---	8.6	7.5	7.8	7.6	6.9	6.8	7.4	7.1	8.5	7.7
7	---	---	8.0	7.2	7.7	7.6	7.1	6.9	7.3	7.1	8.2	7.7
8	---	---	7.4	6.9	7.7	7.6	7.0	6.9	7.6	7.2	8.2	7.6
9	---	---	7.1	7.0	7.7	7.6	7.1	6.9	7.5	7.1	8.1	7.5
10	---	---	7.1	7.0	7.7	7.6	7.2	7.0	7.4	7.2	8.3	7.6
11	---	---	7.2	7.1	7.7	7.6	---	---	7.2	7.0	8.3	7.6
12	---	---	---	---	7.7	7.6	7.6	7.2	7.1	7.0	8.4	7.7
13	---	---	---	---	8.1	7.6	7.8	7.3	7.0	6.9	8.2	7.7
14	7.9	7.4	---	---	7.8	7.7	7.8	6.7	7.1	6.8	8.5	7.7
15	8.9	7.4	---	---	7.7	7.6	7.4	7.2	6.9	6.8	9.0	7.8
16	8.4	7.5	---	---	8.4	7.4	7.5	7.3	6.9	6.8	8.8	8.1
17	7.8	7.4	---	---	8.0	7.4	---	---	6.9	6.9	8.5	7.8
18	7.8	7.4	---	---	8.4	7.4	---	---	7.1	6.8	8.5	7.8
19	7.9	7.4	---	---	7.8	7.4	---	---	7.2	7.0	8.7	8.0
20	8.2	7.3	---	---	7.5	7.3	---	---	7.5	7.1	8.7	8.0
21	8.5	7.3	---	---	7.2	7.0	---	---	7.7	7.3	8.5	8.0
22	8.5	7.3	7.9	7.2	7.1	6.9	---	---	---	---	8.4	7.8
23	7.6	7.3	9.0	7.3	7.0	6.8	---	---	7.9	7.6	8.5	7.8
24	7.5	7.2	8.4	7.8	7.2	6.8	---	---	7.9	7.6	8.4	7.8
25	7.4	7.1	8.1	7.8	7.3	6.9	---	---	7.7	7.3	8.5	7.7
26	7.2	7.0	8.0	7.7	7.6	6.9	---	---	7.7	7.3	8.1	7.7
27	7.2	7.0	8.0	6.9	8.0	6.9	---	---	7.6	7.3	8.0	7.6
28	7.1	7.0	7.6	7.4	7.6	7.5	---	---	7.8	7.3	8.0	7.5
29	7.2	7.0	7.5	7.3	7.5	7.3	---	---	8.0	7.4	7.6	7.4
30	7.7	7.1	7.4	7.3	7.3	7.2	---	---	8.0	7.4	7.8	7.3
31	---	---	7.6	7.4	---	---	7.8	7.7	8.1	7.5	---	---
MONTH	---	---	---	---	8.4	6.8	---	---	8.1	6.8	9.0	7.3

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

TURBIDITY (JTU), AUGUST 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN
1	---	---	40	10
2	---	---	35	10
3	---	---	35	9
4	---	---	25	8
5	---	---	---	---
6	---	---	---	---
7	---	---	20	15
8	---	---	20	15
9	---	---	10	10
10	20	10	10	7
11	20	10	20	5
12	20	10	25	6
13	---	---	15	6
14	---	---	6	5
15	---	---	15	5
16	---	---	10	6
17	---	---	90	7
18	80	5	---	---
19	35	5	---	---
20	40	5	---	---
21	25	5	---	---
22	---	---	10	5
23	---	---	20	10
24	---	---	15	5
25	---	---	---	---
26	0	0	---	---
27	0	0	---	---
28	0	0	---	---
29	0	0	10	2
30	20	0	>120	6
31	20	0	---	---
MONTH	---	---	---	---

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	180	45	0	0
2	---	---	---	---	---	---	---	---	140	60	160	0
3	---	---	---	---	---	---	---	---	90	70	150	15
4	---	---	---	---	---	---	---	---	100	90	190	10
5	---	---	---	---	---	---	---	---	110	100	100	30
6	6	3	---	---	120	55	---	---	110	100	80	55
7	8	2	150	0	55	20	---	---	100	80	80	20
8	6	1	90	0	20	15	---	---	100	70	25	10
9	6	1	0	0	45	10	---	---	90	80	10	10
10.	5	1	0	0	45	15	---	---	80	70	10	7
11	5	0	0	0	45	15	---	---	70	65	310	9
12	2	0	0	0	50	20	---	---	65	60	95	50
13	0	0	260	0	40	20	---	---	60	45	110	65
14	4	0	270	0	---	---	---	---	---	---	390	20
15	>120	1	0	0	---	---	---	---	---	---	700	20
16	6	1	0	0	---	---	---	---	---	---	---	---
17	5	0	0	0	---	---	---	---	---	---	---	---
18	5	0	0	0	---	---	---	---	---	---	---	---
19	10	0	70	0	---	---	---	---	---	---	---	---
20	10	0	20	0	---	---	---	---	---	---	---	---
21	6	0	0	0	---	---	---	---	---	---	---	---
22	1	0	0	0	---	---	---	---	0	0	120	70
23	1	0	0	0	---	---	---	---	0	0	160	60
24	1	0	0	0	---	---	---	---	0	0	110	55
25	---	---	230	0	---	---	---	---	0	0	---	---
26	---	---	75	0	---	---	---	---	0	0	---	---
27	---	---	0	0	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	0	0	---	---
29	---	---	---	---	---	---	---	---	---	---	15	7
30	---	---	---	---	---	---	---	---	---	---	80	3
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

TURBIDITY (JTU), AUGUST 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9	9	0	0	0	0	30	10	0	0
2	---	---	9	7	0	0	0	0	10	0	0	0
3	20	0	20	9	0	0	5	0	0	0	0	0
4	10	0	25	7	0	0	40	0	0	0	0	0
5	70	0	9	5	0	0	90	7	10	0	0	0
6	0	0	9	7	0	0	240	20	10	10	0	0
7	300	0	700	7	0	0	190	0	15	10	0	0
8	160	85	>1200	100	---	---	---	---	55	15	0	0
9	800	30	350	300	---	---	---	---	120	55	0	0
10	150	0	200	85	---	---	---	---	130	95	0	0
11	50	0	85	85	---	---	---	---	310	130	0	0
12	20	15	---	---	---	---	---	---	420	300	0	0
13	---	---	---	---	25	10	---	---	550	420	0	0
14	10	7	---	---	15	10	---	---	800	550	0	0
15	10	7	---	---	35	15	---	---	650	600	0	0
16	20	9	---	---	40	7	---	---	600	550	0	0
17	20	9	---	---	9	7	---	---	550	470	0	0
18	85	7	---	---	---	---	---	---	550	460	0	0
19	190	10	---	---	320	20	---	---	460	150	0	0
20	15	9	---	---	330	140	---	---	190	65	---	---
21	15	10	---	---	---	---	---	---	0	0	0	0
22	35	15	15	10	---	---	---	---	---	---	0	0
23	35	30	20	7	---	---	---	---	0	0	0	0
24	80	30	10	7	---	---	---	---	0	0	0	0
25	140	35	7	7	---	---	---	---	0	0	0	0
26	150	30	55	7	---	---	---	---	0	0	0	0
27	100	35	>1200	7	0	0	---	---	0	0	0	0
28	75	60	440	120	110	0	---	---	0	0	0	0
29	60	45	300	160	0	0	---	---	0	0	410	0
30	45	15	130	50	0	0	---	---	0	0	>1200	55
31	---	---	50	0	---	---	15	10	0	0	---	---
MONTH	800	0	---	---	---	---	---	---	800	0	>1200	0

DISSOLVED OXYGEN (MG/L), AUGUST 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN
1	---	---	10.2	6.2
2	---	---	10.4	5.4
3	---	---	10.8	5.2
4	---	---	11.0	5.2
5	---	---	---	---
6	---	---	---	---
7	---	---	7.1	5.9
8	---	---	8.0	4.6
9	---	---	6.9	3.6
10	8.7	5.3	8.9	4.1
11	9.1	5.4	8.8	5.0
12	7.9	5.0	9.3	5.5
13	5.8	3.6	8.5	4.7
14	5.8	3.3	8.5	5.9
15	7.4	4.0	8.9	6.1
16	6.9	5.1	8.3	6.0
17	11.3	4.9	6.3	5.4
18	11.2	6.2	---	---
19	10.9	6.2	---	---
20	10.9	5.5	---	---
21	9.4	4.7	---	---
22	---	---	6.6	3.9
23	---	---	6.7	4.3
24	---	---	7.5	4.3
25	---	---	8.9	5.7
26	3.8	2.6	7.9	5.7
27	4.2	2.6	---	---
28	4.6	2.6	5.1	3.7
29	7.2	3.2	4.3	3.3
30	7.3	3.1	3.9	3.6
31	9.6	4.1	---	---
MONTH	---	---	---	---

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

DISSOLVED OXYGEN (MG/L), AUGUST 1972 TO SEPTEMBER 1973--Continued

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	4.0	3.6	---	---	---	---	---	---	11.0	8.6
2	---	---	3.9	3.5	---	---	---	---	---	---	10.5	7.8
3	---	---	4.1	3.7	---	---	---	---	---	---	10.4	7.8
4	---	---	4.2	3.8	---	---	---	---	---	---	9.3	7.0
5	---	---	4.5	3.9	---	---	---	---	---	---	8.4	7.5
6	8.6	5.3	5.0	4.2	---	---	---	---	---	---	8.3	7.3
7	9.5	5.9	4.8	4.4	---	---	---	---	---	---	7.5	6.5
8	10.1	7.5	5.3	4.4	---	---	---	---	---	---	8.4	6.4
9	10.2	8.2	5.6	4.8	---	---	---	---	---	---	8.8	6.0
10	11.0	8.6	5.4	4.6	---	---	---	---	10.2	9.3	9.5	6.1
11	11.0	8.6	5.6	4.6	---	---	---	---	10.4	9.4	7.2	5.8
12	9.4	8.0	5.8	4.6	---	---	---	---	10.5	9.2	7.1	6.5
13	9.6	7.8	5.4	4.4	---	---	---	---	9.8	9.1	7.4	6.4
14	10.8	8.0	5.0	3.4	---	---	---	---	---	---	8.1	6.3
15	8.9	5.5	5.8	5.0	---	---	---	---	---	---	7.2	5.9
16	9.1	5.1	6.0	5.5	---	---	---	---	---	---	---	---
17	8.8	5.9	6.0	5.5	---	---	---	---	---	---	---	---
18	8.0	5.7	6.3	5.6	---	---	---	---	---	---	---	---
19	7.0	5.4	6.0	5.4	---	---	---	---	---	---	---	---
20	8.0	6.5	---	---	---	---	---	---	---	---	---	---
21	8.0	6.5	6.1	5.8	---	---	---	---	---	---	---	---
22	7.3	6.3	5.9	5.7	---	---	---	---	---	---	---	---
23	6.4	5.3	6.4	5.8	---	---	---	---	---	---	---	---
24	6.4	2.2	7.0	6.2	---	---	---	---	10.4	10.2	---	---
25	5.2	4.4	7.0	5.2	---	---	---	---	10.9	10.3	---	---
26	6.0	5.1	5.8	5.2	---	---	---	---	10.7	9.0	---	---
27	5.7	4.3	6.0	5.4	---	---	---	---	10.7	8.4	---	---
28	4.8	4.6	---	---	---	---	---	---	10.9	9.4	---	---
29	4.7	4.1	---	---	---	---	---	---	---	---	8.3	7.5
30	4.6	4.0	---	---	---	---	---	---	---	---	8.9	7.9
31	4.5	3.7	---	---	---	---	---	---	---	---	---	---
MONTH	11.0	2.2	7.0	3.4	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.4	7.8	10.4	7.6	---	---	6.6	5.1	12.4	9.2
2	---	---	11.8	7.8	12.1	7.5	7.8	4.7	6.0	4.5	12.4	9.2
3	8.2	6.9	13.1	7.9	11.6	7.2	7.3	4.3	6.2	5.0	13.2	9.2
4	9.2	8.1	10.8	8.2	11.7	6.8	5.5	3.8	7.0	5.3	13.5	9.1
5	9.6	9.0	12.1	8.4	11.1	6.5	4.8	3.6	7.5	5.5	13.6	8.9
6	9.8	9.0	13.3	8.4	9.2	6.2	5.0	3.4	7.8	6.0	12.7	8.7
7	9.2	8.7	11.3	8.1	8.4	6.2	4.7	3.3	7.3	5.8	11.9	8.6
8	8.9	8.4	8.4	6.4	7.4	5.5	4.3	3.3	8.0	6.0	12.1	8.5
9	8.8	8.4	8.3	7.9	7.1	4.9	4.1	3.3	7.9	6.3	11.4	8.4
10	9.8	8.4	8.4	7.7	6.4	4.7	4.9	3.8	7.4	5.8	11.3	8.0
11	9.9	9.3	8.6	7.7	7.6	5.1	---	---	6.3	4.8	11.3	7.9
12	10.3	9.1	---	---	5.8	4.4	7.3	4.8	7.4	5.4	11.3	8.1
13	10.9	8.8	---	---	7.2	3.8	7.8	5.5	6.8	6.1	10.3	8.4
14	11.1	8.9	---	---	6.5	4.9	7.4	5.4	6.7	5.2	11.9	8.5
15	14.2	8.6	---	---	7.0	5.2	6.1	4.9	6.5	5.7	14.1	8.4
16	12.3	7.8	---	---	10.9	4.8	5.7	4.8	6.8	6.0	13.6	8.5
17	10.6	7.9	---	---	8.9	4.1	---	---	7.0	6.3	11.7	8.4
18	10.4	7.8	---	---	10.6	4.1	---	---	6.7	4.7	11.8	8.5
19	10.5	7.1	---	---	8.0	4.1	---	---	7.7	6.5	12.9	9.2
20	11.7	6.8	---	---	7.1	4.2	---	---	8.0	7.1	---	---
21	12.5	6.8	10.0	7.8	5.6	4.1	---	---	9.3	7.0	12.0	9.6
22	12.4	7.0	11.2	7.0	6.5	3.9	---	---	---	---	12.6	9.4
23	9.3	6.8	11.7	7.4	5.0	3.8	---	---	10.8	8.9	12.8	9.1
24	9.0	6.6	10.2	7.2	6.8	3.9	---	---	11.0	9.0	12.8	8.9
25	7.5	6.5	9.4	7.6	7.6	4.7	---	---	11.1	9.0	13.1	8.9
26	7.3	6.4	8.6	6.6	8.2	4.7	---	---	10.9	9.1	11.6	8.7
27	7.7	7.3	8.8	6.1	8.6	4.5	---	---	10.7	8.9	11.1	8.5
28	8.3	7.5	7.2	6.1	---	---	---	---	11.4	9.0	9.9	7.7
29	8.6	7.6	7.3	6.5	---	---	---	---	11.9	9.1	9.3	7.4
30	10.4	7.7	8.0	7.1	---	---	---	---	11.9	9.1	8.7	5.1
31	---	---	9.1	7.5	---	---	6.8	5.9	12.0	9.1	---	---
MONTH	14.2	6.4	---	---	12.1	3.8	---	---	1.2	4.5	14.1	5.1

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

TEMPERATURE (°C) OF WATER, AUGUST 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER, AND CONTINUOUS RECORDER)

	AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN
1	---	---	26.0	24.5
2	---	---	26.5	23.5
3	---	---	27.0	24.0
4	---	---	27.0	25.5
5	---	---	---	---
6	---	---	---	---
7	---	---	25.0	23.5
8	---	---	26.5	24.5
9	---	---	27.5	25.5
10	28.0	27.0	27.0	25.0
11	28.0	26.0	26.5	24.5
12	29.0	26.5	26.0	23.5
13	28.5	26.5	26.5	23.5
14	28.5	26.0	26.0	24.0
15	29.0	26.5	26.5	24.0
16	28.5	26.5	26.0	24.5
17	28.0	27.0	26.5	25.0
18	28.5	26.0	---	---
19	28.5	26.5	---	---
20	28.5	26.0	---	---
21	27.5	25.5	---	---
22	---	---	26.5	24.5
23	---	---	26.5	25.0
24	---	---	26.5	25.0
25	---	---	26.0	24.0
26	28.0	26.0	25.5	25.0
27	28.5	26.0	---	---
28	27.0	25.0	26.0	25.0
29	25.5	24.0	26.5	25.0
30	26.0	23.0	25.0	23.5
31	26.0	23.5	---	---
MONTH	---	---	---	---

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.0	19.5	---	---	---	---	11.0	9.0	11.5	8.5
2	---	---	21.5	20.5	---	---	---	---	10.5	10.0	13.0	11.5
3	---	---	21.5	20.5	---	---	---	---	10.0	8.5	15.0	12.5
4	---	---	20.5	18.0	---	---	---	---	9.0	7.5	14.5	13.5
5	---	---	18.5	16.0	---	---	---	---	11.5	9.0	14.5	13.5
6	22.0	20.5	16.5	15.5	14.5	11.0	---	---	12.5	11.0	16.0	13.5
7	21.0	20.0	18.0	16.0	11.5	9.5	---	---	12.0	11.0	17.5	16.0
8	20.0	18.5	18.0	15.5	14.5	11.0	---	---	12.5	10.0	17.5	15.5
9	19.5	17.0	16.0	14.0	16.5	14.5	---	---	10.0	6.5	18.0	17.0
10	19.5	17.0	16.0	14.0	16.5	15.0	---	---	7.5	6.0	18.0	17.0
11	20.0	17.5	15.5	14.0	15.0	13.0	---	---	7.5	6.0	18.0	16.0
12	20.0	17.5	15.5	13.5	17.0	13.5	---	---	7.5	6.5	17.5	15.5
13	20.5	18.5	16.5	13.5	17.0	15.0	---	---	8.0	7.0	17.5	14.5
14	21.5	19.5	17.5	15.0	---	---	---	---	---	---	19.0	17.5
15	22.0	20.5	15.0	12.5	---	---	---	---	---	---	19.5	19.0
16	21.0	19.5	12.5	11.5	---	---	---	---	---	---	---	---
17	21.0	18.5	12.5	10.5	---	---	---	---	---	---	---	---
18	22.0	20.0	10.5	10.5	---	---	---	---	---	---	---	---
19	21.5	17.0	13.5	10.5	---	---	---	---	---	---	---	---
20	17.0	15.0	13.5	11.5	---	---	---	---	---	---	---	---
21	15.5	14.5	12.0	11.0	---	---	---	---	---	---	15.5	14.0
22	17.0	14.5	11.5	10.5	---	---	---	---	10.0	7.0	14.5	12.0
23	19.0	17.0	10.5	9.0	---	---	---	---	10.5	7.5	15.5	12.5
24	19.0	17.5	9.5	7.5	---	---	---	---	11.0	8.0	15.5	14.0
25	18.5	15.0	12.5	8.5	---	---	---	---	11.0	8.5	---	---
26	15.5	14.0	12.0	10.0	---	---	---	---	12.5	10.0	---	---
27	19.5	14.5	11.5	9.5	---	---	---	---	13.0	11.0	---	---
28	19.5	18.0	---	---	---	---	---	---	11.5	9.5	---	---
29	18.5	17.5	---	---	---	---	---	---	---	---	15.5	15.5
30	19.0	18.0	---	---	---	---	8.0	7.0	---	---	16.0	15.0
31	20.5	18.5	---	---	---	---	9.0	7.0	---	---	---	---
MONTH	22.0	14.0	21.5	7.5	---	---	---	---	---	---	---	---

02460505 VILLAGE CREEK AT PORTER, ALA.--Continued

TEMPERATURE (°C) OF WATER, AUGUST 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	20.5	18.5	23.5	22.0	26.5	24.5	26.0	24.5	26.5	25.0
2	---	---	21.0	19.5	25.0	22.5	27.0	25.5	26.5	25.5	26.5	25.0
3	16.5	16.0	21.0	19.0	26.0	23.0	27.5	25.0	25.5	24.5	27.0	24.5
4	17.0	15.0	19.5	17.5	26.0	24.5	28.0	26.0	25.5	24.5	27.0	25.0
5	16.0	13.5	19.5	17.0	27.0	24.5	26.5	25.5	25.5	24.0	27.0	25.0
6	15.0	13.5	19.0	17.5	26.0	25.0	26.5	25.5	26.5	25.0	26.5	25.5
7	15.5	14.0	19.0	18.0	25.5	24.0	26.5	25.0	27.0	25.0	26.5	25.5
8	16.0	14.0	19.0	18.5	26.0	23.5	26.5	25.0	26.5	25.0	27.5	25.5
9	15.5	13.5	20.0	19.0	27.0	24.5	26.0	25.0	26.5	25.0	27.5	26.0
10	14.0	12.5	21.0	18.0	26.5	24.5	26.5	24.5	27.5	25.0	28.5	26.5
11	13.5	11.0	22.5	20.5	27.5	24.5	26.5	25.0	27.5	26.0	28.0	25.5
12	14.5	12.0	---	---	26.5	25.0	26.5	24.0	27.5	25.0	27.0	24.0
13	16.0	14.0	---	---	26.0	24.0	27.0	24.5	27.0	25.5	26.5	25.0
14	16.5	14.0	---	---	27.0	24.5	26.5	22.0	27.5	25.0	26.5	25.0
15	18.5	14.5	---	---	28.0	25.0	25.0	23.0	27.0	25.5	27.0	25.0
16	18.5	17.5	---	---	28.0	25.5	24.0	23.0	26.0	24.5	26.5	25.0
17	17.5	17.0	---	---	27.0	26.0	---	---	25.0	24.5	26.5	24.5
18	18.0	17.0	---	---	28.0	25.5	---	---	26.5	24.5	25.5	22.5
19	20.0	17.5	---	---	27.5	25.5	---	---	26.5	25.0	23.0	20.5
20	21.5	19.0	---	---	27.5	25.5	---	---	26.5	24.5	22.5	20.0
21	22.0	19.0	22.0	20.5	26.5	25.5	---	---	27.0	25.5	23.5	20.5
22	22.0	19.5	23.0	21.0	27.0	25.0	---	---	25.5	24.0	24.5	22.0
23	21.0	20.5	25.0	22.0	26.5	24.5	---	---	26.0	23.5	25.5	23.5
24	21.0	20.0	24.5	22.5	26.5	23.5	---	---	26.5	24.0	26.0	24.5
25	20.5	19.5	23.5	21.5	27.0	24.5	---	---	26.5	24.5	26.0	24.0
26	19.5	18.5	23.5	22.0	27.5	25.0	---	---	27.0	24.5	25.0	24.5
27	18.5	17.0	24.0	20.5	28.0	25.5	---	---	27.0	25.0	25.5	24.0
28	18.0	15.5	23.0	20.5	27.0	26.0	---	---	27.0	24.0	25.5	24.5
29	18.0	15.0	22.5	20.0	27.0	25.0	---	---	27.5	25.5	26.0	24.5
30	20.0	17.0	22.5	20.5	26.0	24.5	---	---	27.0	25.5	25.0	24.0
31	---	---	23.5	21.0	---	---	25.5	24.5	27.0	24.5	---	---
MONTH	22.0	11.0	---	---	28.0	22.0	---	---	27.5	23.5	28.5	20.0

02462000 VALLEY CREEK NEAR OAK GROVE, ALA.

LOCATION.--Lat 33°26'30", long 87°07'20", in NW¼ sec. 20, T. 18 S., R. 6 W., Jefferson County, at gaging station near center of span on downstream side of highway bridge, 1,000 ft (305 m) downstream from Raccoon Branch, 1.5 miles (2.4 km) east of Oak Grove, and 10.5 miles (16.9 km) west of Bessemer.

DRAINAGE AREA.--145 mi^2 (376 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, and 1967.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
11...	1140	10	130	1300	60	30	78	19	--	--	440	18
NOV.												
06...	51	10	120	950	90	20	66	15	--	--	300	17
DEC.												
18...	48	9.9	90	78	57	16	30	6.0	--	--	140	11
JAN.												
22...	2110	8.5	850	330	18	7.7	6.2	2.0	--	--	47	3.0
MAR.												
05...	80	11	970	680	43	12	22	5.2	76	0	120	5.6
APR.												
06...	1270	11	0	800	61	20	26	6.0	60	0	220	8.4
MAY												
07...	1270	9.2	30	120	56	23	44	7.3	--	--	200	13
JUNE												
18...	238	9.3	100	19	49	20	44	6.5	9	0	270	10
JULY												
23...	726	11	570	800	54	24	36	9.4	39	0	230	8.8
AUG.												
31...	366	9.5	230	1300	60	20	55	7.1	60	0	260	16

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
11...	1.2	1.1	--	682	677	.93	300	190	2.0	--	--
NOV.											
06...	1.3	1.5	--	613	619	.83	330	220	1.5	--	--
DEC.											
18...	1.7	1.0	--	--	343	.47	210	100	.9	--	--
JAN.											
22...	.6	.29	--	--	118	.16	77	43	.3	--	--
MAR.											
05...	.8	5.0	--	--	278	.38	160	98	.8	--	7.6
APR.											
06...	.5	.80	--	--	386	.52	230	180	.7	592	7.2
MAY											
07...	1.2	9.0	--	445	441	.61	230	160	1.3	682	--
JUNE											
18...	.7	9.2	--	452	436	.61	200	200	1.4	598	4.6
JULY											
23...	.4	10	--	--	439	.60	230	200	1.5	630	6.2
AUG.											
31...	.5	--	6.5	486	480	.66	230	180	1.6	784	6.7

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
11...	139	0	1020	7.7	19.5	5.8
NOV.						
06...	137	0	943	7.5	16.5	5.1
DEC.						
18...	134	0	538	7.9	7.5	9.8
JAN.						
22...	42	0	205	6.9	11.0	10.9
MAR.						
05...	--	--	438	--	15.0	7.6
APR.						
06...	--	--	--	--	16.0	7.4
MAY						
07...	88	0	--	7.3	18.0	7.1
JUNE						
18...	--	--	--	--	25.0	6.0
JULY						
23...	--	--	--	--	28.5	5.7
AUG.						
31...	--	--	--	--	31.5	3.8

[illegible] NORTH RIVER NEAR SAMANTHA, ALA.

LOCATION.--Lat 33°28'43", long 87°35'50", in SW¼ sec. 16, T. 18 S., R. 10 W., Tuscaloosa County, at gaging station about 200 ft (61 m) downstream from bridge on county road, 1.2 miles (1.9 km) upstream from Cripple Creek, 4 miles (6 km) north of Samantha, and at mile 30.9 (50.6 km).

DRAINAGE AREA.--219 mi² (567 km²).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1967, 1968, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.											
19...	9.7	--	--	--	--	--	--	--	10	0	--
31...	19	5.7	80	71	2.4	2.2	1.0	2.2	--	--	8.4
NOV.											
29...	98	--	--	--	--	--	--	--	9	0	--
DEC.											
09...	299	8.8	170	30	3.2	2.5	2.9	1.5	--	--	12
JAN.											
22...	4160	7.3	190	40	1.0	1.2	2.0	.7	--	--	7.2
MAR.											
30...	520	8.0	60	30	2.1	1.5	1.7	.6	--	--	6.4
MAY											
01...	414	8.6	240	30	2.0	1.5	2.0	.6	--	--	6.6
JUNE											
04...	294	8.6	160	40	2.2	1.7	2.4	1.0	--	--	5.2
JULY											
09...	186	6.7	610	40	2.5	1.9	2.0	1.1	--	--	8.2

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	PH (UNITS)
OCT.										
19...	2.0	--	--	--	--	--	16	5	--	6.5
31...	2.8	.1	.05	33	30	.04	15	8	.2	--
NOV.										
29...	3.2	--	--	--	--	--	30	23	--	6.4
DEC.										
09...	2.0	.3	.02	--	41	.06	18	8	.3	--
JAN.										
22...	1.6	.1	.00	27	26	.04	9	4	.3	--
MAR.										
30...	1.8	.2	.05	24	26	.03	11	5	.2	--
MAY										
01...	1.3	.1	.00	24	26	.03	11	6	.3	--
JUNE										
04...	1.6	.0	.2	32	29	.04	13	3	.3	--
JULY										
09...	2.0	.1	.1	34	30	.05	14	6	.2	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
19...	--	--	--	64	--	18.0	--
31...	--	8	0	50	6.8	16.0	7.9
NOV.							
29...	--	--	--	60	--	12.0	--
DEC.							
09...	--	13	0	60	7.0	12.0	10.2
JAN.							
12...	671	--	--	--	--	5.0	--
22...	--	8	0	30	6.9	10.5	10.6
FEB.							
13...	397	--	--	44	--	7.0	--
MAR.							
22...	599	--	--	30	--	12.0	--
30...	--	8	0	30	6.7	15.0	10.2
MAY							
01...	--	7	0	24	6.7	17.0	9.6
04...	261	--	--	--	--	17.0	--
JUNE							
04...	--	12	0	33	6.7	22.0	8.8
08...	609	--	--	65	--	22.0	--
JULY							
09...	--	10	0	48	6.4	24.0	8.6
AUG.							
10...	60	--	--	53	--	27.0	--
SEP.							
17...	33	--	--	42	--	25.0	--

02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.

LOCATION.--Lat 33°12'50", long 87°34'25", in SW¼ sec. 15, T. 21 S., R. 10 W., Tuscaloosa County, at gaging station near right bank on downstream side of pier of bridge on U.S. Highway 82, in Tuscaloosa, 0.1 mile (0.2 km) downstream from small tributary, 0.2 mile (0.3 km) upstream from Gulf, Mobile and Ohio Railroad bridge, 0.8 mile (1.3 km) upstream from Oliver Lock and Dam, 4.8 miles (7.7 km) downstream from North River, and at mile 127.0 (204.3 km).

DRAINAGE AREA.--4,828 mi² (12,504 km²).

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1973.
Water temperatures: November 1960 to September 1973.

EXTREMES.--1972-73.
Water temperature: Maximum, 29.5°C July 1, 4, Sept. 9; minimum, 8.5°C Jan. 13-22, Feb. 13-14.

Period of record:
Water temperatures: Maximum, 35.0°C Aug. 6, 1963; minimum (1960-70, 1971-73), 5.0°C Jan. 30, 31, Dec. 25, 1963, Jan. 31, Feb. 1, 1966.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC.										
09...	7280	5.5	50	270	15	8.3	16	4.2	72	9.1
JAN.										
22...	49800	7.5	120	230	7.7	4.3	4.6	1.2	29	2.0
MAR.										
30...	21000	6.5	50	270	8.5	4.2	4.9	1.2	29	2.2
MAY										
04...	11700	6.4	140	120	6.5	3.3	3.5	1.0	21	1.5
JUNE										
08...	28500	6.0	100	70	8.3	4.9	5.4	2.3	26	5.0
JULY										
10...	13300	6.1	90	400	8.2	5.1	7.9	1.7	38	2.2

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)
DEC.									
09...	.6	1.5	--	143	.19	72	53	.7	--
JAN.									
22...	.1	.50	65	68	.09	37	22	.3	--
MAR.									
30...	.2	.60	69	70	.09	39	21	.3	--
MAY									
04...	.1	.60	--	56	.08	30	15	.3	--
JUNE									
08...	.1	.60	69	72	.10	41	23	.4	126
JULY									
10...	.1	.50	82	80	.11	42	27	.5	--

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
DEC.						
09...	24	0	246	6.2	14.0	8.8
JAN.						
22...	18	0	110	7.3	10.0	13.8
MAR.						
30...	22	0	110	6.9	15.0	10.2
MAY						
04...	18	0	70	6.8	18.5	8.2
JUNE						
08...	22	0	--	6.7	23.0	7.2
JULY						
10...	18	0	140	6.7	27.5	5.4

02465000 BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(DIGITAL RECORDER. ONE MEASUREMENT PER HOUR)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	28.0	27.5	21.0	21.0	14.0	14.0	11.0	11.0	10.0	9.5	10.0	9.5
2	27.5	26.5	21.0	21.0	14.0	13.5	11.0	11.0	9.5	9.5	10.5	10.0
3	26.5	26.0	22.0	21.0	14.0	13.5	11.0	11.0	9.5	9.5	10.5	10.5
4	26.0	26.0	21.5	21.5	14.0	13.5	11.0	11.0	9.5	9.0	11.0	10.5
5	26.0	25.5	21.5	21.0	14.0	13.5	11.0	11.0	9.5	9.5	11.0	10.5
6	27.0	26.0	21.5	21.0	14.5	14.0	11.0	11.0	9.5	9.5	11.5	11.0
7	26.5	26.0	21.0	20.0	14.0	13.5	11.0	11.0	10.0	9.5	12.0	11.5
8	26.0	26.0	20.0	19.5	14.0	13.5	11.0	10.5	10.0	10.0	12.0	11.5
9	26.0	25.5	20.0	19.5	14.5	14.0	10.5	10.0	10.0	9.5	12.5	12.0
10	26.0	25.0	19.5	19.5	14.5	14.0	10.0	9.5	9.5	9.0	13.0	12.5
11	25.5	25.0	19.5	19.5	14.0	13.5	9.5	9.5	9.5	9.0	13.5	13.0
12	25.5	25.0	20.0	19.5	13.5	13.5	9.5	9.0	9.0	9.0	13.5	13.0
13	25.5	25.0	19.5	19.0	13.5	13.5	9.0	8.5	9.0	8.5	14.5	13.5
14	26.0	25.0	19.0	19.0	13.5	13.5	8.5	8.5	9.0	8.5	15.5	14.5
15	26.0	25.5	19.0	18.5	13.5	13.0	8.5	8.5	9.0	9.0	15.5	15.0
16	26.5	25.5	18.5	18.0	13.0	12.5	8.5	8.5	9.0	9.0	16.0	15.5
17	27.0	25.5	18.0	17.5	12.5	12.0	8.5	8.5	9.0	9.0	16.0	16.0
18	25.5	24.5	17.5	17.0	12.0	12.0	8.5	8.5	9.0	9.0	16.0	16.0
19	25.0	24.0	17.0	16.5	12.0	12.0	9.0	8.5	9.0	9.0	16.0	16.0
20	24.5	23.5	16.5	16.5	12.0	12.0	9.0	8.5	9.0	9.0	16.0	15.5
21	23.5	23.0	16.5	16.5	12.0	12.0	9.0	8.5	9.5	9.0	15.5	15.5
22	23.0	22.5	16.5	16.5	12.5	12.0	9.0	8.5	9.5	9.5	15.5	15.5
23	22.5	22.5	16.5	16.0	12.0	12.0	9.5	9.0	10.0	9.5	15.5	15.0
24	22.5	22.0	16.0	15.5	12.0	12.0	10.0	9.5	10.0	9.5	15.5	15.0
25	22.0	22.0	15.5	15.0	12.0	11.5	10.0	10.0	10.0	9.5	15.0	15.0
26	22.0	21.5	15.0	15.0	11.5	11.5	10.0	10.0	10.0	9.5	15.0	15.0
27	21.5	21.5	15.0	14.5	11.5	11.0	10.5	10.0	10.0	9.5	15.0	15.0
28	21.5	21.0	15.0	14.5	11.5	11.0	10.5	10.0	10.0	9.5	15.0	15.0
29	21.0	21.0	15.0	14.0	11.5	11.0	10.0	10.0	---	---	15.0	15.0
30	21.0	21.0	14.0	14.0	11.0	11.0	10.0	10.0	---	---	15.0	15.0
31	21.0	21.0	---	---	11.5	11.0	10.0	9.5	---	---	15.0	15.0
MONTH	28.0	21.0	22.0	14.0	14.5	11.0	11.0	8.5	10.0	8.5	16.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	15.0	18.5	18.0	23.0	23.0	29.5	27.0	28.0	28.0	27.0	26.5
2	15.5	15.5	18.5	18.0	23.0	23.0	28.5	27.5	28.5	28.0	27.0	27.0
3	15.5	15.5	18.5	18.0	25.5	23.0	27.5	27.0	28.5	28.0	28.0	26.5
4	16.0	15.5	18.5	18.5	24.0	24.0	29.5	27.5	28.5	28.0	27.5	26.5
5	16.0	16.0	19.0	18.5	24.0	23.5	28.0	27.5	28.5	28.0	27.5	27.0
6	16.0	16.0	19.0	18.5	23.5	23.5	28.0	27.5	28.5	28.0	27.0	27.0
7	16.0	16.0	18.5	18.0	23.5	23.0	27.5	27.5	28.5	28.0	27.5	27.0
8	16.0	16.0	18.0	18.0	24.0	23.0	27.5	27.0	28.0	28.0	29.0	27.0
9	16.0	16.0	18.5	18.0	24.5	24.0	28.0	27.5	28.5	28.0	29.5	27.5
10	16.0	15.5	19.0	18.5	24.5	24.5	27.5	27.0	28.5	28.0	29.0	28.0
11	15.5	15.0	19.5	18.5	25.0	24.5	28.0	27.5	28.5	28.5	28.5	28.0
12	15.5	15.0	19.5	19.0	25.0	24.5	28.5	28.0	28.5	28.0	28.0	27.5
13	15.5	15.0	20.0	19.5	24.5	24.5	29.0	28.0	29.0	26.5	27.5	27.5
14	15.5	15.5	20.0	20.0	25.0	24.5	28.5	28.0	26.5	26.0	27.5	27.5
15	15.5	15.5	20.5	20.0	25.5	25.0	28.0	27.5	27.0	26.5	28.0	27.0
16	16.0	15.5	20.5	20.0	25.5	25.0	28.5	28.0	27.5	27.0	29.0	27.0
17	15.5	15.5	21.5	20.0	26.0	25.5	28.0	28.0	27.0	27.0	28.0	27.0
18	15.5	15.5	20.5	20.5	26.5	25.5	28.0	27.5	28.5	27.0	28.0	26.5
19	16.0	15.5	21.0	20.5	26.0	25.5	28.0	27.5	28.0	27.0	27.5	26.5
20	16.5	16.0	21.0	20.5	26.5	25.5	28.0	28.0	27.5	27.0	27.0	26.0
21	17.0	16.5	21.0	20.5	26.5	26.0	28.0	27.5	28.0	27.0	27.0	26.0
22	19.0	17.0	22.0	21.0	26.5	26.0	28.0	28.0	27.5	27.5	28.0	25.5
23	17.5	17.0	21.5	21.5	27.0	26.0	28.5	27.5	27.5	27.0	27.5	26.0
24	17.0	17.0	21.5	21.5	26.5	26.0	28.5	28.0	27.5	27.0	28.5	26.0
25	17.5	17.0	22.0	21.5	27.0	26.5	28.5	28.0	27.5	27.0	27.0	26.0
26	18.0	17.5	23.0	22.0	27.0	26.5	28.0	28.0	28.0	27.0	26.5	25.5
27	18.5	18.0	23.0	22.5	27.0	26.5	28.0	27.5	27.5	27.0	26.0	25.5
28	18.5	18.5	22.5	21.5	27.0	26.5	28.0	27.5	27.5	27.0	26.5	25.5
29	18.5	18.5	22.5	22.0	27.0	26.5	29.0	28.0	27.5	27.0	27.0	26.0
30	18.5	18.0	23.0	22.5	27.5	26.5	29.0	28.5	27.0	27.0	26.0	24.5
31	---	---	23.5	22.5	---	---	28.5	28.0	27.0	26.5	---	---
MONTH	19.0	15.0	23.5	18.0	27.5	23.0	29.5	27.0	29.0	26.0	29.5	24.5

02467000 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, NEAR COATOPA, ALA. (UPPER POOL)

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, at gaging station on left bank, 100 ft (30 m) upstream from lock and dam, 0.5 mile (0.8 km) downstream from Foscue Creek, 2.5 miles (4.0 km) west of Demopolis, 3.5 miles (5.6 km) upstream from Hall Creek, 13 miles (21 km) east of Coatopa, and at mile 171.2 (275.5 km).

DRAINAGE AREA.--15,400 mi^2 (39,900 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
20...	1820	42	0	168	7.0	24.0	5.8
NOV.							
17...	10800	36	0	150	6.9	15.0	7.7
JAN.							
05...	54900	39	0	128	6.9	10.0	9.8
FEB.							
15...	59400	--	--	120	7.2	8.0	10.6
MAR.							
19...	96400	--	--	130	6.8	16.5	9.6
MAY							
21...	16900	--	--	87	7.0	22.5	7.7
JUNE							
25...	21300	--	--	148	7.0	28.0	6.6
JULY							
23...	15800	--	--	131	7.0	29.0	6.1
SEP.							
06...	9150	--	--	152	7.0	29.0	5.7

02467001 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, ALA. (LOWER POOL)

LOCATION.--Lat 32°31'15", long 87°52'39", in NW¼ sec. 22, T. 18 N., R. 2 E., Marengo County, 50 yards (46 m) downstream from gaging station on left bank 100 ft (30 m) upstream from lock and dam, 0.5 mile (0.8 m) downstream from Foscue Creek, 2.5 miles (4.0 km) west of Demopolis, 3.5 miles (5.6 km) upstream from Hall Creek, 13 miles (21 km) east of Coatopa, and at mile 171.2 (275.5 km).

DRAINAGE AREA.--15,400 mi^2 (39,800 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 20...	1020	6.7	20	--	16	3.7	11	3.4	32	8.4
NOV. 17...	10800	7.2	340	10	15	3.0	10	3.3	28	8.0
JAN. 05...	54900	6.6	130	120	17	3.1	4.6	2.2	22	4.6
FEB. 15...	59400	--	--	--	--	--	--	--	--	--
MAR. 19...	96400	--	--	--	--	--	--	--	--	--
APR. 16...	29400	--	220	--	--	--	--	--	--	--
MAY 21...	16900	--	700	--	--	--	--	--	--	--
JUNE 25...	21300	--	--	--	--	--	--	--	--	--
JULY 23...	15800	--	--	--	--	--	--	--	--	--
SEP. 06...	9150	--	40	--	--	--	--	--	--	--

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 20...	.2	--	.60	--	.018	.38	.059	.026	--	106
NOV. 17...	.2	.3	--	.018	--	.13	.11	.042	97	93
JAN. 05...	.1	.4	.40	.009	.009	.53	.17	.035	86	82
FEB. 15...	--	.3	--	--	--	--	.055	--	--	--
MAR. 19...	--	.6	--	--	--	--	.10	--	--	--
APR. 16...	--	.3	--	.006	--	.25	.082	--	61	--
MAY 21...	--	.4	--	.018	--	28	.078	--	76	--
JUNE 25...	--	.07	--	--	--	--	.15	--	--	--
JULY 23...	--	.5	--	--	--	--	.11	--	--	--
SEP. 06...	--	.5	--	.000	--	.37	.075	--	90	--

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	CYANIDE (CN) (MG/L)
OCT. 20...	.14	55	19	.6	30	40	11	1.2	200	14	.02
NOV. 17...	.13	50	21	.6	40	30	23	1.9	870	60	--
JAN. 05...	.12	56	23	.3	75	240	23	3.0	8300	370	.00
FEB. 15...	--	--	--	--	--	--	24	--	13000	870	--
MAR. 19...	--	--	--	--	--	--	20	--	820	450	--
APR. 16...	.08	--	--	--	--	--	7	--	610	47	.01
MAY 21...	.10	--	--	--	--	--	9	--	1000	50	.00
JUNE 25...	--	--	--	--	--	--	35	--	1000	44	--
JULY 23...	--	--	--	--	--	--	11	--	870	56	--
SEP. 06...	.12	--	--	--	--	--	38	--	210	10	.00

02467001 TOMBIGBEE RIVER AT DEMOPOLIS LOCK AND DAM, ALA. (LOWER POOL)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.						
20...	6	0	0	4	.0	20
JAN.						
05...	1	0	0	5	.0	0
APR.						
16...	6	0	10	2	.0	10
MAY						
21...	5	0	0	0	.1	10
SEP.						
06...	1	<10	0	<50	.0	50

FIELD ANALYSES

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT.						
20...	43	0	165	7.2	24.0	8.8
NOV.						
17...	35	0	145	7.1	15.0	11.2
JAN.						
05...	40	0	132	7.1	10.0	12.2
FEB.						
15...	--	--	120	7.1	8.0	12.4
MAR.						
19...	--	--	120	6.8	16.5	12.6
APR.						
16...	--	--	96	6.5	16.0	12.0
MAY						
21...	--	--	102	7.0	22.5	10.6
JUNE						
25...	--	--	132	7.4	27.0	9.5
JULY						
23...	--	--	126	7.1	29.0	9.0
SEP.						
06...	--	--	148	6.9	29.0	8.4

02467500 SUCARNOOCHEE RIVER AT LIVINGSTON, ALA.

LOCATION.--Lat 32°34'25", long 88°11'36", in SW¼ sec. 33, T. 19 N., R. 2 W., Sumter County, at gaging station on right bank 10 ft (3 m) downstream from bridge on U.S. Highway 11, 500 ft (152 m) upstream from Southern Railway bridge, 0.8 mile (1.3 km) southwest of Livingston, and 9 miles (14 km) upstream from Alamuchee Creek.

DRAINAGE AREA.--606 mi^2 (1,570 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967 and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
16...	97	10	60	14	5.0	1.3	3.2	1.8	--	--	3.4	3.2
NOV.												
28...	401	10	520	10	5.0	1.1	3.3	1.8	--	--	7.8	3.4
JAN.												
09...	2920	10	350	120	5.4	1.4	2.7	1.7	--	--	11	2.4
MAR.												
19...	3440	9.5	796	70	5.2	1.1	2.9	2.1	--	--	7.2	2.4
APR.												
16...	613	13	300	60	8.3	1.4	4.3	1.3	--	--	8.2	3.2
JUNE												
28...	340	12	820	10	8.0	1.5	2.9	1.1	--	--	5.2	2.8
JULY												
24...	105	11	620	50	5.7	1.6	3.1	1.6	--	--	3.8	3.0
SEP.												
12...	109	11	400	30	8.0	1.1	4.5	1.4	30	0	4.3	3.2

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
16...	.1	.05	--	42	38	.06	18	1	.3	--	--
NOV.											
28...	.2	.02	--	46	39	.06	17	5	.3	--	--
JAN.											
09...	.3	.02	--	43	42	.06	20	9	.3	--	--
MAR.											
19...	.2	.50	--	41	41	.06	18	4	.3	--	--
APR.											
16...	.2	.02	--	53	53	.07	27	6	.4	76	--
JUNE											
28...	.1	.50	--	--	51	.07	26	2	.2	--	--
JULY											
24...	.1	.10	--	46	42	.06	21	1	.3	--	--
SEP.											
12...	.1	--	.02	50	49	.07	25	0	.4	66	7.3

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
16...	--	21	0	53	6.3	19.5	8.4
31...	172	--	--	60	--	16.5	--
NOV.							
28...	--	13	0	56	6.0	9.5	11.0
DEC.							
13...	530	--	--	70	--	14.0	--
JAN.							
09...	--	14	0	58	6.9	6.5	11.2
23...	3470	--	--	65	--	12.0	--
FEB.							
26...	524	--	--	80	--	13.0	--
MAR.							
19...	--	17	0	56	6.7	15.0	9.0
APR.							
03...	4680	--	--	60	--	16.5	--
16...	--	26	0	--	7.1	16.5	9.7
MAY							
08...	2850	--	--	100	--	18.0	--
JUNE							
28...	--	30	0	69	7.1	27.0	7.7
JULY							
24...	--	25	0	59	6.9	28.0	7.0
AUG.							
08...	192	--	--	80	--	27.0	--
SEP.							
12...	--	--	--	--	--	26.0	7.6
18...	181	--	--	60	--	23.0	--

02468500 CHICKASAW BOGUE NEAR LINDEN, ALA.

LOCATION.--Lat 32°19'45", long 87°47'27", in SW¼ sec. 28, T. 16 N., R. 3 E., Marengo County, at gaging station near left bank on downstream side of bridge on U.S. Highway 43, 1.5 miles (2.4 km) north of Linden, 2 miles (3 km) downstream from Atkin Creek, and 11 miles (18 km) upstream from mouth.

DRAINAGE AREA.--250 mi^2 (648 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966, 1968, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 16...	1.0	8.5	110	70	30	2.1	5.2	2.3	--	--	4.0	4.0
NOV. 01...	3.2	--	--	--	--	--	--	--	107	0	--	12
28...	33	6.9	60	50	30	2.5	6.1	4.0	--	--	30	8.0
JAN. 09...	2840	7.6	60	80	21	1.2	2.3	1.9	--	--	9.2	2.4
MAR. 23...	107	8.7	230	60	40	1.0	5.0	2.0	--	--	18	4.4
APR. 16...	117	7.6	110	70	37	1.6	7.7	1.7	--	--	18	6.0
JUNE 28...	24	4.5	160	20	50	1.7	5.5	2.4	145	0	16	6.2
JULY 24...	34	8.0	50	90	43	2.4	7.4	2.8	--	--	17	7.8
SEP. 12...	10	7.6	80	150	40	2.3	8.1	2.7	127	--	11	7.1

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 16...	.2	.02	--	106	106	.14	81	0	.2	--	--
NOV. 01...	--	--	--	--	--	--	140	53	--	--	6.7
28...	.3	.30	--	128	124	.17	86	28	.3	--	--
JAN. 09...	.2	.02	--	--	78	.11	58	6	.1	--	--
MAR. 23...	.1	.09	--	142	136	.19	110	17	.2	--	--
APR. 16...	.2	.02	--	140	135	.19	99	8	.3	--	--
JUNE 28...	.1	.90	--	--	161	.22	130	11	.2	297	8.2
JULY 24...	.2	.02	--	155	153	.21	120	14	.3	--	--
SEP. 12...	.3	--	.03	146	142	.20	110	5	.3	248	7.8

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 16...	--	100	0	181	7.4	23.0	7.1
NOV. 01...	--	--	--	290	--	19.5	--
28...	--	71	0	216	6.9	11.0	9.8
DEC. 14...	25	--	--	320	--	14.0	--
JAN. 09...	--	55	0	122	7.4	6.0	11.2
24...	274	--	--	200	--	9.0	--
FEB. 26...	48	--	--	240	--	13.0	--
MAR. 23...	--	107	0	250	7.5	13.0	10.2
APR. 04...	273	--	--	[illegible]	--	15.5	--
16...	--	114	0	[illegible]	7.6	18.0	8.9
MAY 08...	7100	--	--	100	--	19.5	--
JUNE 28...	--	--	--	--	--	29.5	9.2
JULY 24...	--	130	0	269	7.7	28.5	7.0
AUG. 08...	46	--	--	260	--	27.0	--
SEP. 12...	--	--	--	--	--	27.5	8.0
18...	9.9	--	--	220	--	23.0	--

02469694 PUSS CUSS CREEK NEAR GILBERTOWN, ALA.

LOCATION.--Lat 31°53'44", long 88°23'19", in NW¼SE¼ sec. 28, T 11 N., R. 4 W., Choctaw County, at bridge on County Road 14, 0.9 mile (1.4 km) upstream from mouth, 1.6 miles (2.6 km) downstream from Jones Creek, and 4 miles (6 km) west of Gilbertown.

DRAINAGE AREA.--52.7 mi^2 (136.5 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	10	129	0	66	120	15	449	7.9	21.5
NOV.									
02...	9.0	140	0	56	130	9	460	8.0	25.5
29...	12	--	--	22	--	--	307	7.7	11.5
DEC.									
20...	60	--	--	11	--	--	152	7.2	16.0
JAN.									
24...	18	--	--	12	--	--	230	7.9	11.0
MAR.									
01...	20	--	--	16	--	--	282	8.0	13.0
APR.									
06...	18	--	--	13	--	--	221	7.9	13.0
MAY									
01...	12	--	--	8.0	--	--	200	7.8	21.0
				FIELD ANALYSES					
JUNE									
06 ...	60	--	--	--	--	--	116	--	--
JULY									
20 ...	9	--	--	--	--	--	260	--	29.0
SEP .									
05 ...	10	--	--	--	--	--	250	--	29.0

02469710 LITTLE MILL CREEK AT GILBERTOWN, ALA.

LOCATION.--Lat 31°52'20", long 88°19'16", in NW¼ sec. 6, T. 10 N., R. 3 W., Choctaw County, at left bank, 20 ft (6 m) downstream from Alabama Highway 17 crossing, at Gilbertown, and 2.8 miles (4.5 km) upstream from mouth.

DRAINAGE AREA.--3.50 mi^2 (9.06 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	0.1	237	0	44	50	0	560	7.2	18.5
NOV.									
02...	0.5	78	0	230	100	36	1000	7.5	20.0
29...	1.0	--	--	190	--	--	752	6.8	10.0
DEC.									
20...	3.0	--	--	61	--	--	300	6.7	12.0
JAN.									
24...	2.5	--	--	89	--	--	353	7.2	9.5
MAR.									
01...	2.0	--	--	110	--	--	463	7.5	10.0
APR.									
06...	15	--	--	72	--	--	310	7.5	13.0
MAY									
01...	2.5	--	--	74	--	--	250	7.1	17.0
JULY									
02...	1.6	--	--	110	--	--	406	7.4	23.0
				FIELD ANALYSES					
JUNE									
06 ...	8.0	--	--	--	--	--	112	--	21.0
JULY									
20 ...	1.0	--	--	--	--	--	290	--	26.0
AUG .									
08 ...	2.0	--	--	--	--	--	290	--	23.5

02469711 LITTLE MILL CREEK AT MOUTH NEAR GILBERTOWN, ALA.

LOCATION.--Lat 31°51'40", long 88°17'20", in SE¼SE¼ sec. 4, T. 10 N., R. 3 W., Choctaw County, at left bank, 2.3 miles (3.7 km) east of Gilbertown, and at the mouth.

DRAINAGE AREA.--5.21 mi^2 (13.49 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	.2	43	0	3600	1000	960	9920	6.7	19.0
NOV.									
02...	1.0	39	0	250	110	78	975	7.0	22.0
29...	3.5	--	--	140	--	--	590	7.3	--
DEC.									
20...	4.5	--	--	120	--	--	497	7.0	11.0
JAN.									
24...	6.0	--	--	69	--	--	298	7.3	10.0
MAR.									
01...	2.5	--	--	100	--	--	415	7.6	10.0
APR.									
06...	20	--	--	56	--	--	284	7.3	13.5
MAY									
01...	3.5	--	--	64	--	--	275	7.3	19.0
JUNE									
06...	10	--	--	34	--	--	149	7.1	21.5
JULY									
02...	2.8	--	--	130	--	--	523	7.3	25.0
20...	1.5	--	--	86	--	--	356	7.2	25.5
SEP.									
05...	3.5	--	--	64	--	--	266	7.3	24.0

02469727 SURVEYORS CREEK NEAR BARRYTOWN, ALA.

LOCATION.--Lat 31°51'50", long 88°13'20", in SE¼SE¼ sec. 12, T. 10 N., R. 3 W., Choctaw County, at left bank, 1.2 miles (1.9 km) west of Barrytown, and 0.1 mile (0.2 km) upstream from mouth.

DRAINAGE AREA.--24.6 mi^2 (63.7 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	15	52	0	21	30	0	146	6.9	17.0
NOV.									
02...	12	26	0	8.8	22	1	94	7.4	20.0
29...	10	--	--	15	--	--	114	7.0	9.0
DEC.									
20...	10	--	--	12	--	--	104	7.1	8.5
JAN.									
24...	20	--	--	5.0	--	--	60	7.0	10.0
MAR.									
01...	10	--	--	6.4	--	--	70	7.7	10.0
SEP.									
05...	8.0	--	--	5.2	--	--	71	7.3	24.0
FIELD ANALYSES									
JUNE									
06 ...	40	--	--	--	--	--	76	--	23.0
JULY									
20 ...	8.0	--	--	--	--	--	75	--	--

02469730 OKATUPPA CREEK NEAR BARRYTOWN, ALA.

LOCATION.--Lat 31°50'50", long 88°13'58", in SE¼SE¼ sec. 12, T. 10 N., R. 3 W., Choctaw County, at gaging station near left bank on downstream side of bridge on Choctaw County Highway 14, 1 mile (1.6 km) east of Barrytown, and 2 miles (3 km) southwest of Womack Hill.

DRAINAGE AREA.--260 mi^2 (670 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1967, October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
02...	35	61	0	200	89	30	702	7.2	20.0
NOV.									
02...	25	48	0	120	80	41	560	7.5	22.5
29...	20	--	--	20	--	--	174	7.3	9.5
DEC.									
20...	20	--	--	16	--	--	157	7.3	9.5
JAN.									
24...	40	--	--	6.4	--	--	100	7.1	9.5
MAR.									
01...	15	--	--	12	--	--	149	7.5	11.0
APR.									
06...	--	--	--	10	--	--	110	7.5	16.0
MAY									
01...	100	--	--	7.2	--	--	96	7.5	19.5
JULY									
20...	25	--	--	20	--	--	165	7.3	28.0
FIELD ANALYSES									
JUNE									
06...	100	--	--	--	--	--	95	--	23.5
AUG.									
05...	30	--	--	--	--	--	150	--	26.0

02469761 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM NEAR COFFEEVILLE, ALA. (UPPER POOL)

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, at gaging station near right bank at Coffeeville Lock and Dam, 4 miles (6 km) downstream from Turkey Creek, 2 miles (3.2 km) west of Coffeeville, and at mile 74.7 (120.2 km).

DRAINAGE AREA.--18,500 mi^2 (47,900 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
19...	1770	44	0	213	6.8	25.0	5.1
NOV.							
17...	9770	42	0	175	6.9	16.0	8.2
MAY							
25...	24900	--	--	96	7.1	23.5	7.6
JUNE							
29...	16500	--	--	139	7.0	28.0	5.8
JULY							
27...	20500	--	--	133	7.4	29.5	5.8
SEP.							
06...	9800	--	--	166	6.9	29.0	5.1

02469762 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, (LOWER POOL)

LOCATION.--Lat 31°45'30", long 88°07'45", in sec. 12, T. 9 N., R. 2 W., Choctaw County, near right bank about 0.5 mile (0.8 km) downstream from Coffeeville Lock and Dam, 4 miles (6 km) downstream from Turkey Creek, 2 miles (3 km) west of Coffeeville, and at mile 74.7 (120.2 km).

DRAINAGE AREA.--18,500 mi^2 (47,900 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967, 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 19...	1770	6.4	210	--	16	4.2	20	3.5	37	18
NOV. 17...	9770	7.0	260	10	17	2.9	13	3.5	26	14
DEC. 01...	15400	--	--	--	--	--	--	--	--	--
JAN. 05...	64200	6.4	30	40	16	3.0	5.3	2.2	21	4.6
FEB. 15...	60500	--	--	--	--	--	--	--	--	--
MAR. 22...	98500	--	--	--	--	--	--	--	--	--
APR. 17...	54600	--	170	--	--	--	--	--	--	--
MAY 25...	24900	--	660	--	--	--	--	--	--	--
JUNE 29...	16500	--	--	--	--	--	--	--	--	--
JULY 27...	20500	--	--	--	--	--	--	--	--	--
SEP. 06...	9000	--	110	--	--	--	--	--	--	--

DATE	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 19...	.1	--	.60	--	.025	.40	.088	.042	126	131
NOV. 17...	.2	--	.50	--	.027	.18	.11	.033	103	107
DEC. 01...	--	--	--	--	--	--	--	--	--	--
JAN. 05...	.1	.4	.40	.010	.010	.71	.26	.016	85	80
FEB. 15...	--	.3	--	--	--	--	.11	--	--	--
MAR. 22...	--	.5	--	--	--	--	.059	--	--	--
APR. 17...	--	.3	--	.015	--	.32	.13	--	71	--
MAY 25...	--	.3	--	.015	--	.20	.050	--	74	--
JUNE 29...	--	.2	--	--	--	--	.10	--	--	--
JULY 27...	--	.5	--	--	--	--	.10	--	--	--
SEP. 06...	--	.4	--	.010	--	.26	.059	--	100	--

02469762 TOMBIGBEE RIVER AT COFFEEVILLE LOCK AND DAM, (LOWER POOL)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 19...	.17	58	21	1.1	30	45	14	1.1	600	7
NOV. 17...	.14	55	19	.8	30	15	17	1.4	--	--
DEC. 01...	--	--	--	--	--	--	--	--	1100	26
JAN. 05...	.12	53	20	.3	90	22	23	2.7	8200	940
FEB. 15...	--	--	--	--	--	--	20	--	10000	2100
MAR. 22...	--	--	--	--	--	--	21	--	19700	4600
APR. 17...	.10	--	--	--	--	--	7	--	31000	600
MAY 25...	.10	--	--	--	--	--	9	--	2800	650
JUNE 29...	--	--	--	--	--	--	27	--	300	6
JULY 27...	--	--	--	--	--	--	12	--	2200	200
SEP. 06...	.14	--	--	--	--	--	33	--	240	15

DATE	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 19...	.01	6	0	0	4	.0	0
JAN. 05...	.00	1	0	0	6	.0	0
APR. 17...	.00	9	0	0	1	.0	10
MAY 25...	.00	3	0	0	0	.1	10
SEP. 06...	.00	3	<10	0	<50	.0	70

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 19...	44	0	210	6.9	25.0	8.8
NOV. 17...	42	0	175	6.8	16.0	10.1
DEC. 01...	--	--	202	--	--	--
JAN. 05...	40	0	136	7.0	10.5	10.3
FEB. 15...	--	--	138	7.0	8.5	11.4
MAR. 22...	32	0	165	7.1	15.5	11.0
APR. 17...	--	--	108	7.3	16.0	8.0
MAY 25...	--	--	93	7.2	24.0	9.6
JUNE 29...	--	--	129	7.2	28.0	9.2
JULY 27...	--	--	133	7.5	29.0	8.4
SEP. 06...	--	--	163	6.9	29.0	8.3

02469800 SATILPA CREEK NEAR COFFEEVILLE, ALA.

LOCATION.--Lat 31°46'39", long 88°01'21", in SE¼ sec. 13, T. 9 N., R. 1 W., Clarke County, at gaging station near left bank on downstream side of bridge on State Highway 12, 0.2 mile (0.3 km) upstream from unnamed tributary, 3 miles (4.8 km) downstream from Harris Creek, and 3.8 miles (6.1 km) east of Coffeeville.

DRAINAGE AREA.--166 mi² (430 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to June 1973 (discontinued).

REMARKS.--Miscellaneous samples of chemical data published for water years 1965, 1966, 1967, and 1969.

CHEMICAL ANALYSES, OCTOBER 1972 TO JUNE 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 20...	4.6	9.0	110	60	27	1.3	2.1	.8	--	--	3.6
NOV. 17...	18	10	20	30	18	1.4	2.4	1.5	--	--	10
JAN. 05...	276	16	110	50	11	1.2	2.4	1.0	--	--	11
FEB. 15...	1100	13	100	30	8.1	.7	1.7	.7	--	--	6.8
MAR. 21...	888	16	370	40	9.4	.8	1.8	1.0	24	0	5.6
APR. 16...	273	16	320	40	15	.9	3.3	.8	--	--	5.6
MAY 25...	559	12	610	40	9.0	1.0	2.5	.6	--	--	4.2
JUNE 26...	72	16	720	20	23	1.4	2.2	.7	--	--	4.6

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)
OCT. 20...	2.6	.1	.02	90	88	.12	72	4	.1	--	--
NOV. 17...	3.2	.2	.02	71	72	.10	51	10	.1	--	--
JAN. 05...	3.2	.2	.02	68	59	.09	33	12	.2	--	--
FEB. 15...	2.4	.2	.07	53	43	.07	23	8	.2	--	--
MAR. 21...	2.8	.2	.10	61	50	.08	27	8	.2	--	6.5
APR. 16...	2.6	.2	.07	62	60	.08	41	4	.2	--	--
MAY 25...	2.6	.1	.05	--	48	.07	28	4	.2	78	--
JUNE 26...	3.4	.1	.10	100	87	.14	44	0	.1	--	--

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT. 20...	83	0	145	7.4	16.5	8.2
NOV. 17...	50	0	114	7.3	10.0	10.4
JAN. 05...	26	0	82	7.0	12.0	9.9
FEB. 15...	16	0	51	6.9	10.5	11.7
MAR. 21...	--	--	66	--	15.0	9.4
APR. 16...	46	0	76	7.1	17.0	9.5
MAY 25...	29	0	--	6.9	20.5	8.8
JUNE 26...	71	0	141	7.3	25.0	7.5

02470060 TOMBIGBEE RIVER NEAR JACKSON, ALA.
(International hydrological decade station)

LOCATION.--Lat 31°31', long 87°56', in sec. 1, T. 6 N., R. 1 E., Clarke County, at gaging station on downstream side of bridge, near midstream, on U.S. Highway 43, 1 mile (1.6 km) west of Jackson, 2.5 miles (4.0 km) upstream from Southern Railroad bridge, 5 miles (8 km) upstream from Bassett Creek, and 8.3 miles (13.4 km) downstream from lock 1.

DRAINAGE AREA.--19,000 mi^2 (49,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1973.
Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Minimum, 0.0°C on several days during January, February, and March.

Period of record:
Water temperatures: Maximum (1962-72), 33.5°C on several days during August, 1972; minimum (1962-71, 1972-73), 0.0°C on several days during January 1970.

REMARKS.--No temperature data Mar. 19-Aug. 29 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT. 19...	1770	--	--	--	--	--	--	--	--	--	--	--
DEC. 01...	16000	6.9	260	20	17	3.2	10	3.2	--	--	30	10
JAN. 12...	100000	--	--	--	--	--	--	--	--	--	--	--
MAR. 02...	23000	8.0	340	110	12	2.4	5.7	1.6	--	--	17	5.0
22...	96000	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	56000	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	24900	--	--	--	--	--	--	--	--	--	--	--
JUNE 29...	16800	7.4	430	90	15	2.5	6.3	2.4	--	--	17	6.4
JULY 27...	20500	--	--	--	--	--	--	--	--	--	--	--
SEP. 06...	9940	7.7	150	50	15	3.5	11	2.0	40	0	27	11

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 19...	--	--	--	--	--	--	--	--	--	1.0	3400	12
DEC. 01...	.3	.09	--	108	104	.15	56	19	.6	--	1000	76
JAN. 12...	[illegible]	--	--	--	--	--	--	--	--	3.1	9000	2300
MAR. 02...	.4	.02	--	61	69	.08	40	12	.4	2.1	10000	--
22...	--	--	--	--	--	--	--	--	--	2.8	15000	600
APR. 17...	--	--	--	--	--	--	--	--	--	--	6000	130
MAY 25...	--	--	--	--	--	--	--	--	--	.8	3000	500
JUNE 29...	.1	.5	--	--	81	.11	48	11	.4	.7	3300	12
JULY 27...	--	--	--	--	--	--	--	--	--	1.4	3300	110
SEP. 06...	.2	--	.10	--	98	.12	52	19	.7	--	--	--

02470040 TOMBIGBEE RIVER NEAR JACKSON, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

RADIOCHEMICAL ANALYSES

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAR. 22...	1.6	8.1	2.8	5.5	2.2	6.9	.04	.04
SEP. 12...	<2.0	1.1	3.9	1.1	3.1	1.0	.04	.05

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT. 19...	50	0	215	6.8	23.5	8.0
DEC. 01...	46	0	180	6.0	10.5	11.6
JAN. 12...	32	0	112	6.7	7.0	10.8
MAR. 02...	34	0	113	6.9	11.5	11.0
22...	34	0	93	7.1	15.5	11.2
APR. 17...	26	0	122	7.6	16.0	7.5
MAY 25...	60	0	91	7.0	23.5	8.6
JUNE 29...	45	0	128	7.1	28.0	7.6
JULY 27...	33	0	136	6.9	29.0	7.9
SEP. 06...	--	--	166	7.1	29.0	7.6

02470040 TOMBIGBEE RIVER NEAR JACKSON, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.0	25.5	20.0	20.0	11.0	10.5	9.0	9.0	8.0	8.0	8.0	8.0
2	25.5	25.0	20.0	20.0	10.5	10.0	9.5	9.0	8.0	8.0	8.5	8.0
3	25.0	24.0	20.0	20.0	10.0	9.5	9.0	9.0	8.0	8.0	8.5	8.5
4	25.0	24.5	20.0	20.0	9.5	9.5	9.0	9.0	8.0	8.0	8.5	8.5
5	25.5	25.0	20.0	19.0	9.5	9.5	9.0	9.0	8.0	8.0	9.5	8.5
6	25.5	25.0	19.0	19.0	10.0	9.5	9.0	9.0	8.0	8.0	10.0	9.5
7	25.0	25.0	19.0	19.0	10.0	10.0	9.0	9.0	8.0	8.0	12.0	10.0
8	25.0	24.5	19.0	18.5	10.0	10.0	9.0	8.5	8.0	8.0	13.0	12.0
9	24.5	23.5	18.5	18.0	10.0	10.0	8.5	8.5	8.0	8.0	13.0	13.0
10	23.5	23.0	18.0	18.0	11.0	10.0	9.0	8.5	8.0	8.0	13.0	13.0
11	23.0	23.0	18.0	18.0	11.0	11.0	8.5	8.5	8.0	8.0	13.5	13.0
12	23.0	23.0	18.5	18.0	11.0	11.0	8.5	8.5	8.0	8.0	13.5	13.5
13	23.0	23.0	18.5	18.5	11.0	11.0	8.5	8.5	8.0	8.0	14.0	13.5
14	23.0	23.0	18.5	18.0	11.0	11.0	8.5	8.5	8.0	8.0	14.5	14.0
15	23.0	23.0	18.0	17.0	11.0	11.0	8.5	8.5	8.0	8.0	15.0	14.5
16	23.0	23.0	17.0	16.0	11.0	11.0	8.5	8.5	8.0	8.0	15.0	15.0
17	23.0	23.0	16.0	15.5	11.0	10.0	8.5	8.5	8.0	8.0	15.0	15.0
18	23.0	23.0	15.5	15.0	10.0	9.0	8.5	8.0	8.0	8.0	15.0	15.0
19	23.0	22.5	15.0	15.0	9.0	9.0	8.0	8.0	8.0	8.0	---	---
20	22.5	21.0	15.0	14.5	9.0	9.0	8.0	8.0	8.0	8.0	---	---
21	21.0	20.0	14.5	14.0	9.0	9.0	8.0	8.0	8.0	8.0	---	---
22	20.0	20.0	14.5	14.0	9.0	9.0	8.0	8.0	8.0	8.0	---	---
23	20.5	20.0	14.0	13.5	9.0	9.0	8.0	8.0	8.0	8.0	---	---
24	21.0	20.5	13.5	13.0	9.5	9.0	8.0	8.0	8.0	8.0	---	---
25	21.0	21.0	13.0	12.5	9.0	9.0	8.0	8.0	8.0	8.0	---	---
26	21.0	20.0	12.5	12.0	9.0	9.0	8.0	8.0	8.0	8.0	---	---
27	20.0	19.5	12.0	11.5	9.0	9.0	8.0	8.0	8.0	8.0	---	---
28	20.0	19.5	11.5	11.5	9.0	9.0	8.0	8.0	8.0	8.0	---	---
29	20.0	20.0	11.5	11.0	9.0	9.0	8.0	8.0	---	---	---	---
30	20.0	19.5	11.0	11.0	9.0	9.0	8.0	8.0	---	---	---	---
31	20.0	19.5	---	---	9.0	9.0	8.0	8.0	---	---	---	---
MONTH	27.0	19.5	20.0	11.0	11.0	9.0	9.5	8.0	8.0	8.0	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	29.5	29.5
2	---	---	---	---	---	---	---	---	---	---	29.5	29.0
3	---	---	---	---	---	---	---	---	---	---	29.0	29.0
4	---	---	---	---	---	---	---	---	---	---	29.0	29.0
5	---	---	---	---	---	---	---	---	---	---	29.0	29.0
6	---	---	---	---	---	---	---	---	---	---	29.0	29.0
7	---	---	---	---	---	---	---	---	---	---	29.0	29.0
8	---	---	---	---	---	---	---	---	---	---	29.0	29.0
9	---	---	---	---	---	---	---	---	---	---	29.0	29.0
10	---	---	---	---	---	---	---	---	---	---	29.0	29.0
11	---	---	---	---	---	---	---	---	---	---	29.5	29.0
12	---	---	---	---	---	---	---	---	---	---	29.5	29.0
13	---	---	---	---	---	---	---	---	---	---	29.0	29.0
14	---	---	---	---	---	---	---	---	---	---	29.0	29.0
15	---	---	---	---	---	---	---	---	---	---	29.0	29.0
16	---	---	---	---	---	---	---	---	---	---	29.0	29.0
17	---	---	---	---	---	---	---	---	---	---	29.0	28.5
18	---	---	---	---	---	---	---	---	---	---	28.5	28.5
19	---	---	---	---	---	---	---	---	---	---	28.5	27.5
20	---	---	---	---	---	---	---	---	---	---	27.5	27.0
21	---	---	---	---	---	---	---	---	---	---	27.0	27.0
22	---	---	---	---	---	---	---	---	---	---	27.5	27.0
23	---	---	---	---	---	---	---	---	---	---	28.0	27.5
24	---	---	---	---	---	---	---	---	---	---	28.5	28.0
25	---	---	---	---	---	---	---	---	---	---	29.0	28.5
26	---	---	---	---	---	---	---	---	---	---	29.5	29.0
27	---	---	---	---	---	---	---	---	---	---	29.0	28.5
28	---	---	---	---	---	---	---	---	---	---	28.5	28.0
29	---	---	---	---	---	---	---	---	---	---	28.0	28.0
30	---	---	---	---	---	---	---	---	29.5	29.5	28.0	28.0
31	---	---	---	---	---	---	---	---	29.5	29.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	29.5	27.0

02470520 CEDAR CREEK BELOW BRANCH NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°07'10", long 88°12'28", in NW¼SW¼ sec. 20, T. 2 N., R. 2 W., Mobile County, at left bank, 1.8 miles (2.9 km) upstream from Hector Branch, 2.5 miles (4.0 km) northeast of Citronelle, Ala., and 3 miles (5 km) upstream from County Road 96 crossing.

DRAINAGE AREA.--3.59 mi^2 (9.30 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1968-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	3.0	2	0	27	20	19	128	5.1	20.0
30...	4.0	--	--	33	--	--	134	6.0	11.0
DEC.									
19...	5.0	--	--	28	--	--	124	5.0	10.0
FIELD ANALYSES									
JAN.									
26...	4.0	--	--	--	--	--	104	--	--
FEB.									
28...	--	--	--	--	--	--	94	--	--
APR.									
05...	4.0	--	--	--	--	--	59	--	16.0
MAY									
02...	4.0	--	--	--	--	--	76	--	20.0
JUNE									
05...	4.0	--	--	--	--	--	82	--	24.0
JULY									
19...	4.0	--	--	--	--	--	93	--	26.5
SEP.									
06...	5.0	--	--	--	--	--	56	--	24.0

02470560 LITTLE CREEK AT CITRONELLE, ALA.

LOCATION.--Lat 31°04'04", long 88°10'25", in NW¼NW¼ sec. 10, T. 1 N., R. 2 W., Mobile County, at private road bridge, 2.8 miles (4.5 km) upstream from mouth, and 4.2 miles (6.8 km) southeast of Citronelle, Ala.

DRAINAGE AREA.--10.6 mi^2 (27.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	2.5	5	0	67	40	36	241	5.9	22.0
30...	4.0	--	--	46	--	--	193	5.4	11.0
DEC.									
19...	4.0	--	--	36	--	--	156	5.6	9.0
JAN.									
26...	4.0	--	--	36	--	--	152	6.1	12.0
FEB.									
28...	3.0	--	--	34	--	--	139	6.2	13.0
FIELD ANALYSES									
APR.									
05...	--	--	--	--	--	--	104	--	16.0
MAY									
01...	--	--	--	--	--	--	126	--	21.5
JUNE									
05...	3.0	--	--	--	--	--	166	--	27.0
JULY									
19...	2.0	--	--	--	--	--	166	--	28.0
SEP.									
06...	7.0	--	--	--	--	--	163	--	24.0

02470910 CHICKASAW CREEK AT COUNTY BRIDGE NEAR GULFCREST, ALA.

LOCATION.--Lat 31°00'28", long 88°13'30", in SW¼NW¼ sec. 31, T. 1 N., R. 2 W., Mobile County, at bridge on unimproved road, 1.0 mile (1.6 km) northeast of Gulfcrest, Ala., 2.2 miles (3.5 km) upstream from Sand Hill Creek, and 3.9 miles (6.3 km) upstream from Sweetwater Branch.

DRAINAGE AREA.--9.03 mi^2 (23.39 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	6.0	4	0	7.0	6	3	35	6.1	19.0
30...	6.5	--	--	4.8	--	--	33	6.0	11.5
APR.									
05...	7.0	--	--	3.0	--	--	26	7.5	14.0
				FIELD ANALYSES					
JAN.									
26...	7.0	--	--	--	--	--	32	--	11.5
FEB.									
28...	6.0	--	--	--	--	--	32	--	11.0
MAY									
02...	7.0	--	--	--	--	--	24	--	21.0
JUNE									
05...	5.0	--	--	--	--	--	25	--	24.5
JULY									
19...	6.0	--	--	--	--	--	30	--	19.0
SEP.									
06...	10	--	--	--	--	--	32	--	24.0

02471001 CHICKASAW CREEK NEAR KUSHLA, ALA.

LOCATION.--Lat 30°48'10", long 88°08'36", in NE¼ sec. 11, T. 3 S., R. 2 W., Mobile County, at gaging station on left bank at upstream side of bridge, 0.7 mile (1.12 km) upstream from Seabury Creek, 1.4 miles (2.2 km) southeast of Kushla, and 7 miles (11 km) northwest of Mobile.

DRAINAGE AREA.--125 mi^2 (324 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, and 1969 as Chickasaw Creek near Whistler.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
18...	45	7.1	260	4	.5	.5	2.2	.6	--	--	1.6	3.0
NOV.												
30...	110	9.2	80	10	.9	.8	2.3	.5	--	--	5.6	3.2
JAN.												
11...	252	9.0	80	80	.7	.7	2.2	.5	1	0	4.6	3.2
MAR.												
02...	181	6.7	130	40	1.2	.7	2.1	.4	4	0	3.8	3.2
22...	321	8.1	230	70	1.0	.5	2.1	.6	--	--	4.8	3.4
APR.												
18...	439	5.8	190	40	1.3	.5	3.9	.6	8	0	3.6	3.0
MAY												
24...	99	6.6	530	20	2.3	.7	3.2	.5	8	0	2.0	3.2
JUNE												
26...	93	7.2	640	10	1.4	.5	2.3	.5	--	--	2.0	3.4
JULY												
26...	107	7.6	1300	70	1.0	.7	1.9	.6	2	0	2.4	3.6
SEP.												
06...	600	9.2	330	60	1.3	.5	2.2	.5	--	--	5.7	3.5

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
18...	.1	.02	--	--	17	.02	3	1	.5	--	--
NOV.											
30...	.2	.02	--	22	24	.03	6	5	.4	--	--
JAN.											
11...	.2	.02	--	22	21	.03	5	4	.4	--	5.2
MAR.											
02...	.2	.02	--	23	20	.03	6	3	.4	--	5.4
22...	.2	.00	--	24	21	.03	5	4	.4	--	--
APR.											
18...	.3	.05	--	23	23	.03	5	0	.7	26	6.3
MAY											
24...	.1	.50	--	--	25	.03	9	2	.5	--	5.7
JUNE											
26...	.1	.20	--	27	20	.04	6	3	.4	--	--
JULY											
26...	.1	.05	--	24	19	.03	6	5	.4	--	5.2
SEP.											
06...	.1	--	.02	--	23	.05	5	5	.4	26	--

02471001 CHICKASAW CREEK NEAR KUSHLA, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT.							
03...	59	--	--	--	--	20.0	--
18...	--	2	0	20	5.9	23.0	8.8
NOV.							
09...	71	--	--	25	--	5.5	--
30...	--	2	0	30	4.9	12.5	10.0
DEC.							
20...	176	--	--	40	--	6.0	--
JAN.							
11...	--	--	--	29	--	8.0	11.0
31...	152	--	--	30	--	9.0	--
MAR.							
02...	--	--	--	24	--	13.5	9.8
07...	238	--	--	35	--	18.0	--
22...	--	1	0	27	5.3	15.0	10.2
APR.							
18...	--	--	--	--	--	17.5	10.4
MAY							
09...	457	--	--	30	--	20.0	--
24...	--	--	--	--	--	22.0	8.6
JUNE							
25...	109	--	--	25	--	26.0	--
26...	--	4	0	24	5.6	27.0	7.9
JULY							
26...	--	--	--	22	--	25.0	7.8
31...	252	--	--	30	--	25.5	--
SEP.							
06...	--	0	0	--	4.4	24.5	7.3
12...	284	--	--	30	--	24.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
02399200 LITTLE RIVER NEAR BLUE POND, ALA. (LAT 34 17 20 LONG 085 40 50)									
NOV., 1972									
09...	98	6	0	2.4	22	20	--	5.3	--
FIELD ANALYSES									
OCT., 1972									
05...	12	--	--	--	--	--	25	--	20.0
NOV.									
09...	--	--	--	--	--	--	50	--	13.0
DEC.									
28...	431	--	--	--	--	--	25	--	7.0
FEB., 1973									
22...	349	--	--	--	--	--	87	--	6.0
MAR.									
29...	806	--	--	--	--	--	16	--	12.0
MAY									
03...	440	--	--	--	--	--	20	--	17.0
JULY									
12...	105	--	--	--	--	--	22	--	--

02403500 COLDWATER SPRING NEAR ANNISTON, ALA. (LAT 33 36 10 LONG 085 55 33)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
JUNE, 1973											
19...	61	12	20	20	23	12	1.1	1.5	130	0	1.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE, 1973										
19...	1.4	.1	.02	116	.16	110	4	.0	233	8.2

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JUNE, 1973				
19...	--	--	18.0	10.0
02410000 PATERSON CREEK NEAR CENTRAL, ALA. (LAT 32 40 54 LONG 086 07 40)				
FIELD ANALYSES				
OCT., 1972				
02...	.73	--	15.5	--
NOV.				
06...	1.0	--	17.0	--
DEC.				
29...	5.3	--	8.0	--
JAN., 1973				
31...	7.0	40	9.0	--
MAR.				
09...	8.4	40	--	--
MAY				
17...	9.0	40	16.0	--
JULY				
12...	6.3	45	21.0	--
AUG.				
17...	3.5	45	22.0	--
SEP.				
18...	1.7	48	22.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02419890 TALLAPOOSA RIVER NEAR MONTGOMERY, ALA. (LAT 32 26 33 LONG 086 11 44)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC., 1972									
22...	5500	8.4	410	0	2.9	1.3	4.0	1.6	4.2
MAR., 1973									
09...	--	8.1	430	10	4.7	1.1	3.3	1.3	4.4
JULY									
26...	--	9.3	70	20	2.5	1.2	2.8	1.2	2.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO
DEC., 1972									
22...	3.4	.1	.02	35	34	.05	13	0	.5
MAR., 1973									
09...	2.8	.2	.2	36	35	.05	16	3	.4
JULY									
26...	2.4	.1	.1	--	28	.04	11	0	.4

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
DEC., 1972						
22...	16	0	46	7.1	12.0	12.4
MAR., 1973						
09...	16	0	46	6.8	14.5	--
JULY						
26...	14	0	33	6.7	28.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02423390 CAHABA RIVER AT PUMP STATION NEAR BIRMINGHAM, ALA. (LAT 33 27 05 LONG 086 42 58)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC., 1972												
18...	101	6.9	60	50	8.6	3.6	5.2	1.5	--	--	16	2.8
MAR., 1973												
06...	--	7.1	400	30	8.1	2.3	4.4	1.2	--	--	7.6	2.4
JULY												
23...	--	8.6	100	30	13	4.5	7.2	1.5	51	0	20	2.5

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
DEC., 1972											
18...	.1	.00	--	61	62	.08	37	[illegible]	.4	--	--
MAR., 1973											
06...	.2	.8	--	56	54	.08	30	5	.4	--	--
JULY											
23...	.2	--	.12	87	83	.12	51	9	.4	138	7.0

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
DEC., 1972						
18...	34	0	108	7.3	7.5	6.3
MAR., 1973						
06...	31	0	110	7.2	14.0	9.2
JULY						
23...	--	--	--	--	28.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
02425000 CAHABA RIVER NEAR MARION JUNCTION, ALA. (LAT 32 26 30 LONG 087 10 49)									
OCT., 1972 30...	2240	78	0	4.4	92	28	--	6.8	--
FIELD ANALYSES									
OCT., 1972 30...	--	--	--	--	--	--	200	--	17.5
DEC. 14...	2360	--	--	--	--	--	160	--	14.0
JAN., 1973 25...	9080	--	--	--	--	--	100	--	13.0
FEB. 28...	1790	--	--	--	--	--	140	--	13.0
MAY 07...	2550	--	--	--	--	--	100	--	18.0
JULY 05...	1890	--	--	--	--	--	120	--	26.0
AUG. 09...	1150	--	--	--	--	--	160	--	27.0
SEP. 17...	730	--	--	--	--	--	180	--	26.0
02425500 CEDAR CREEK AT MINTER, ALA. (LAT 32 04 45 LONG 086 59 02)									
NOV., 1972 02...	16	79	0	4.2	74	1	165	6.9	21.5
02429000 LIMESTONE CREEK NEAR MONROEVILLE, ALA. (LAT 31 33 45 LONG 087 21 06)									
NOV., 1972 02...	30	36	0	8.8	42	13	125	6.9	19.0
02429580 BUTTERFORK CREEK NEAR URIAH, ALA. (LAT 31 17 50 LONG 087 31 30)									
OCT., 1972 02...	--	5	0	2.6	4	0	16	5.9	17.0
JAN., 1973 24...	--	--	--	3.4	--	--	24	5.9	13.0
02429595 LITTLE RIVER NEAR URIAH, ALA. (LAT 31 14 31 LONG 087 36 50)									
FIELD ANALYSES									
OCT., 1972 02...	63	--	--	--	--	--	--	--	18.0
NOV. 07...	71	--	--	--	--	--	80	--	11.0
DEC. 18...	115	--	--	--	--	--	60	--	5.0
JAN., 1973 30...	116	--	--	--	--	--	20	--	9.0
MAR. 06...	135	--	--	--	--	--	20	--	17.0
MAY 11...	162	--	--	--	--	--	21	--	25.0
JUNE 18...	204	--	--	--	--	--	23	--	23.0
JULY 30...	193	--	--	--	--	--	25	--	24.5
SEP. 13...	200	--	--	--	--	--	20	--	24.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02444000 COAL FIRE CREEK NEAR PICKENSVILLE, ALA. (LAT 33 17 51 LONG 088 15 56)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT., 1972			
27...	35	26	13.0
NOV.			
30...	74	29	8.5
JAN., 1973			
10...	1140	--	4.0
FEB.			
14...	534	34	9.0
APR.			
04...	699	24	15.0
MAY			
01...	344	28	17.0
JUNE			
06...	126	30	22.0
JULY			
05...	68	31	25.0
AUG.			
13...	57	31	24.0
SEP.			
18...	33	--	23.0

02448500 NOXUBEE RIVER NEAR GEIGER, ALA. (LAT 32 55 06 LONG 088 17 45)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT., 1973			
19...	72	51	19.0
DEC.			
01...	528	145	8.5
FEB., 1973			
14...	4450	175	10.0
MAY			
01...	5200	83	18.0
JUNE			
06...	464	162	25.0
AUG.			
08...	138	139	29.0
SEP.			
18...	114	152	25.0

02449870 BLUE SPRING NEAR BLOUNTSVILLE, ALA. (LAT 34 08 08 LONG 086 32 16)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT., 1972			
06...	.65	160	16.0
NOV.			
08...	.56	160	15.0
DEC.			
28...	.93	140	15.5
FEB., 1973			
20...	1.1	116	14.5
MAR.			
27...	1.3	120	15.0
MAY			
01...	1.3	100	17.0
JUNE			
06...	1.1	105	16.0
JULY			
12...	.81	140	15.0
SEP.			
25...	.74	--	19.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

02453000 BLACKWATER CREEK NEAR MANCHESTER, ALA. (LAT 33 54 30 LONG 087 15 25)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT., 1972 31...	34	7.1	240	24	3.2	3.0	2.0	2.1	13

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO
OCT., 1972 31...	1.6	.1	.05	60	37	.05	21	12	.2

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT., 1972 31...	11	0	61	6.3	15.0	9.9
DEC. 05...	8	0	115	6.5	9.5	12.0

02455000 LOCUST FORK NEAR CLEVELAND, ALA. (LAT 33 [illegible] LONG 086 34 [illegible])

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT., 1972 05...	56	192	21.0
NOV. 08...	57	200	14.5
JAN., 1973 11...	1480	175	6.0
MAR. 27...	831	80	13.5
31...	5450	65	13.0
MAY 01...	991	70	17.5
JUNE 06...	207	90	22.0
JULY 13...	142	95	24.0
SEP. 26...	32	--	23.5

02456000 TURKEY CREEK AT MORRIS, ALA. (LAT 33 44 25 LONG 086 48 45)

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT., 1972 04...	54	220	19.0
NOV. 06...	43	260	14.0
FEB., 1973 21...	131	--	8.0
MAR. 27...	276	131	13.0
MAY 01...	187	160	17.0
JUNE 05...	84	215	23.0
JULY 10...	94	190	26.0
SEP. 21...	24	--	18.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible] FIVEMILE CREEK NEAR GREENSBORO, ALA. (LAT 32 49 57 LONG 087 36 26)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1972 20...	120	11	0	2.2	20	11	--	6.6	--
NOV. 27...	979	4	0	2.6	16	13	--	6.2	--
MAR., 1973 20...	245	3	0	1.8	6	4	23	5.6	--
JUNE 11...	112	9	0	1.4	8	1	--	6.0	--

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1972 20...	--	--	--	--	--	--	30	--	15.0
NOV. 27...	--	--	--	--	--	--	29	--	8.0
JAN., 1973 11...	279	--	--	--	--	--	--	--	5.0
FEB. 16...	219	--	--	--	--	--	25	--	8.0
MAR. 20...	--	--	--	--	--	--	--	--	17.0
APR. 30...	184	--	--	--	--	--	25	--	16.0
JUNE 11...	--	--	--	--	--	--	27	--	24.0
JULY 06...	50	--	--	--	--	--	36	--	26.5
AUG. 10...	20	--	--	--	--	--	44	--	26.0
SEP. 13...	11	--	--	--	--	--	--	--	26.5

[illegible] TUCKABUM CREEK NEAR BUTLER, ALA. (LAT 32 11 00 LONG 088 10 12)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
FEB., 1973 26...	81	24	0	3.8	22	3	60	7.4	15.0

[illegible] CREEK NEAR SWEETWATER, ALA. (LAT 32 02 57 LONG 087 52 12)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
FEB., 1973 26...	11	19	0	5.6	22	7	60	7.2	13.5

[illegible] BAYOU SARA NEAR SARALAND, ALA. (LAT 30 49 40 LONG 088 06 20)

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
APR., 1973 16...	5.7	90	50	1.5	.5	3.5	.6	4.4	3.6	.1	.00	.000

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
APR., 1973 16...	.00	.010	.000	22	.03	6	3	.6	50	10	.4

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
APR., 1973 16...	2	0	20	5.1	17.5	7.2

02479430 BEAVER POND BRANCH NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°08'40", long 88°16'45", in NE¼NE¼ sec. 26, T. 2 N., R. 3 W., Mobile County, at left bank at private bridge, 2.1 miles (3.4 km) upstream from Sandy Fork Branch, and 1.4 miles (2.2 km) north of Citronelle, Ala.

DRAINAGE AREA.--0.56 mi² (1.45 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous sample of chemical data published for water year 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	1.5	2	0	190	140	140	760	5.0	21.5
30...	2.0	--	--	180	--	--	690	5.5	13.5
DEC.									
19...	1.5	--	--	160	--	--	617	6.0	11.5
JAN.									
26...	1.5	--	--	170	--	--	590	5.8	14.0
FEB.									
28...	1.5	--	--	176	--	--	642	5.8	16.0
APR.									
05...	1.0	--	--	140	--	--	530	7.2	14.5
MAY									
01...	1.0	--	--	180	--	--	570	6.3	22.0
JUNE									
05...	1.5	--	--	170	--	--	622	6.1	24.0
JULY									
19...	1.0	--	--	170	--	--	610	7.4	26.0
SEP.									
06...	.80	--	--	150	--	--	530	7.3	24.0

02479439 UNNAMED TRIBUTARY TO BEAVER POND BRANCH AT U.S. HIGHWAY 45, ALA.

LOCATION.--Lat 31°07'07", long 88°13'50", in NE¼SE¼ sec. 23, T. 2 N., R. 3 W., Mobile County, at right bank, at culvert on U.S. Highway 45, 1.8 miles (2.9 km) north of Citronelle, Ala., 0.1 mile (0.2 km) upstream from mouth.

DRAINAGE AREA.--0.46 mi² (1.19 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	.10	5	0	22	20	16	98	5.7	20.0
30...	1.0	--	--	15	--	--	63	5.4	13.0
JAN.									
26...	1.0	--	--	12	--	--	66	6.0	12.0
FEB.									
28...	.80	--	--	13	--	--	59	6.3	12.5
APR.									
05...	1.0	--	--	7.8	--	--	49	7.2	14.5

FIELD ANALYSES

DATE	INSTANTANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY									
01...	--	--	--	--	--	--	64	--	19.0
JUNE									
05...	.50	--	--	--	--	--	78	--	24.0
JULY									
19...	.25	--	--	--	--	--	88	--	25.0
SEP.									
06...	1.0	--	--	--	--	--	77	--	23.5

02479447 BEAVER POND BRANCH AT MOUTH, ALA.

LOCATION.--Lat 31°06'36", long 88°18'15", in NE¼NE¼ sec. 20, T. 2 N., R. 3 W., Mobile County, at right bank, 0.6 mile (1.0 km) downstream from Mill Branch, 4 miles (6 km) west of Citronelle, Ala., and 0.1 mile (0.2 km) upstream from mouth.

DRAINAGE AREA.--8.53 mi² (22.09 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1967-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	--	0	0	91	52	52	348	4.3	--
30...	8.0	--	--	61	--	--	240	5.4	11.0
DEC.									
19...	10	--	--	52	--	--	215	6.0	--
JAN.									
26...	7.0	--	--	50	--	--	200	5.7	12.5
FEB.									
28...	7.0	--	--	49	--	--	191	6.0	14.0
APR.									
03...	7.0	--	--	30	--	--	126	6.9	16.0
SEP.									
08...	9.0	--	--	76	--	--	248	7.1	26.0

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
MAY									
02...	7.0	--	--	--	--	--	160	--	21.0
JUNE									
06...	7.0	--	--	--	--	--	180	--	26.0
JULY									
19...	7.0	--	--	--	--	--	185	--	27.0

02479465 PUPPY CREEK AT CITRONELLE, ALA.

LOCATION.--Lat 31°06'24", long 88°14'50", in NE¼SE¼ sec. 2, T. 1 N., R. 3 W., Mobile County, at private road bridge approximately 14 miles (22 km) upstream from mouth, and 1.2 miles (1.9 km) southwest of Citronelle, Ala.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1970 (partial-record station), October 1970 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	--	44	0	220	120	84	935	6.4	21.0
30...	--	--	--	210	--	--	800	6.5	--
DEC.									
19...	5.0	--	--	170	--	--	680	6.5	11.5
JAN.									
26...	2.0	--	--	190	--	--	685	5.9	11.5
FEB.									
28...	2.0	--	--	170	--	--	710	6.4	10.0
APR.									
05...	4.0	--	--	84	--	--	362	7.0	14.0
MAY									
02...	5.0	--	--	110	--	--	410	6.3	20.0
JUNE									
05...	3.0	--	--	110	--	--	480	6.2	26.0
28...	6.0	--	--	110	--	--	450	7.5	23.5
JULY									
19...	2.0	--	--	120	--	--	521	7.3	25.0

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
SEP.									
06...	5.0	--	--	--	--	--	540	--	26.0

02479466 PUPPY CREEK ON RUSSELL ROAD NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°03'21", long 88°15'00", in SW¼SE¼ sec. 11, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, and 2.6 miles (4.2 km) southwest of Citronelle, Ala.

DRAINAGE AREA.--4.50 mi² (11.6 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	3.0	9	0	230	130	120	952	6.4	19.5
30...	4.0	--	--	150	--	--	580	6.5	11.0
DEC.									
19...	6.0	--	--	120	--	--	468	6.2	10.0
JAN.									
26...	3.0	--	--	110	--	--	410	6.2	11.5
FEB.									
28...	3.0	--	--	110	--	--	403	6.8	9.5
APR.									
05...	7.0	--	--	57	--	--	248	6.9	14.0
MAY									
02...	6.0	--	--	80	--	--	298	6.9	20.0
JUNE									
05...	4.0	--	--	82	--	--	320	6.6	27.0
SEP.									
06...	7.0	--	--	130	--	--	460	6.9	24.0

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
JULY									
19...	3.0	--	--	--	--	--	345	--	26.0

02479467 UNNAMED TRIBUTARY TO PUPPY CREEK NEAR CITRONELLE, ALA.

LOCATION.--Lat 31°03'22", long 88°16'01", in NW¼NE¼ sec. 15, T. 1 N., R. 3 W., Mobile County, at bridge on Russell Road, 1.5 miles (2.4 km) from mouth, and 3.0 miles (4.8 km) southwest of Citronelle, Ala.

DRAINAGE AREA.--2.84 mi² (7.36 km²).

PERIOD OF RECORD.--Chemical analyses: May 1971 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	3.0	3	0	29	22	20	120	5.7	18.5
30...	4.0	--	--	25	--	--	111	5.8	11.0
DEC.									
19...	5.0	--	--	74	--	--	302	5.5	10.0
JAN.									
26...	2.5	--	--	28	--	--	127	5.9	10.5
FEB.									
28...	2.5	--	--	20	--	--	88	6.4	9.5
APR.									
05...	4.0	--	--	13	--	--	61	6.9	14.0

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY									
01...	--	--	--	--	--	--	70	--	19.0
JUNE									
05...	3.0	--	--	--	--	--	78	--	23.0
JULY									
19...	3.0	--	--	--	--	--	84	--	24.0
SEP.									
06...	5.0	--	--	--	--	--	88	--	24.0

02479468 PUPPY CREEK AT COUNTY BRIDGE, ALA.

LOCATION.--Lat 31°01'04", long 88°20'50", in NE¼SE¼ sec. 26, T. 1 N., R. 4 W., Mobile County, at bridge on State Highway 217, 4.8 miles (7.7 km) upstream from mouth, 8.3 miles (13.3 km) southwest of Citronelle, Ala.

DRAINAGE AREA.--28.8 mi^2 (74.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1966-69.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.									
01...	--	2	0	39	26	25	180	5.7	--
30...	12	--	--	32	--	--	142	5.6	12.0
DEC.									
19...	14	--	--	29	--	--	132	4.9	13.0
JAN.									
26...	11	--	--	20	--	--	92	5.4	13.0
FEB.									
28...	10	--	--	22	--	--	77	5.3	14.0
SEP.									
06...	18	--	--	10	--	--	53	6.9	24.0
				FIELD ANALYSES					
APR.									
05...	--	--	--	--	--	--	70	--	17.0
MAY									
01...	12	--	--	--	--	--	72	--	21.0
JUNE									
05...	10	--	--	--	--	--	81	--	28.0
JULY									
19...	8.0	--	--	--	--	--	78	--	25.0

02479500 ESCATAWPA RIVER NEAR WILMER, ALA.

LOCATION.--Lat 30°51'44", long 88°25'04", in NW¼ sec. 19, T. 2 S., R. 4 W., Mobile County, at gaging station near midstream on downstream side of bridge on U.S. Highway 98 at Alabama-Mississippi State line, 0.2 mile (0.3 km) upstream from Gulf, Mobile & Ohio Railroad bridge, 0.5 mile (0.8 km) upstream from Rocky Creek, and 4 miles (6 km) northwest of Wilmer.

DRAINAGE AREA.--506 mi^2 (1,310 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1964, 1965, 1966, 1967, 1969, and 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
18...	76	8.2	80	11	1.1	.7	3.6	.4	--	--	2.2	6.4
NOV.												
30...	200	9.4	100	40	2.0	1.1	4.3	.7	--	--	6.2	8.4
JAN.												
11...	1240	11	70	110	1.4	.8	2.8	.5	--	--	5.6	4.2
MAR.												
01...	515	8.6	310	90	1.2	.7	2.9	.3	--	--	3.0	5.6
22...	1700	7.9	400	90	1.6	.6	2.6	.7	--	--	4.0	4.6
APR.												
18...	1240	7.0	250	40	1.4	.6	3.4	.5	5	0	2.8	4.4
MAY												
24...	325	8.7	240	30	1.3	.6	3.6	.7	--	--	2.4	5.0
JUNE												
26...	292	8.7	410	10	1.1	.5	2.8	.4	--	--	2.4	3.8
JULY												
26...	251	8.8	370	60	1.1	.8	2.3	.6	2	0	2.8	4.0
SEP.												
06...	1040	7.9	440	100	1.5	.6	1.9	.7	--	--	5.5	3.7

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT.											
18...	.1	.05	--	29	24	.04	6	4	.7	--	--
NOV.											
30...	.2	.02	--	43	32	.06	10	9	.6	--	--
JAN.											
11...	.2	.02	--	26	27	.04	7	6	.5	--	--
MAR.											
01...	.2	.20	--	22	24	.03	6	5	.5	--	--
22...	.2	.02	--	31	22	.04	6	5	.4	--	--
APR.											
18...	.2	.07	--	20	23	.04	6	2	.6	26	6.3
MAY											
24...	.1	.02	--	27	26	.04	6	1	.7	--	--
JUNE											
26...	.0	.20	--	--	22	.03	4	2	.6	--	--
JULY											
26...	.1	.07	--	29	22	.04	6	5	.4	--	5.2
SEP.											
06...	.1	--	.03	--	22	.05	6	6	.3	20	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	96	--	--	--	--	22.0	--
18...	--	3	0	33	6.0	25.0	8.0
NOV.							
08...	101	--	--	25	--	9.5	--
30...	--	1	0	48	5.1	12.5	10.0
DEC.							
20...	396	--	--	40	--	8.0	--
JAN.							
11...	--	1	0	38	4.9	7.5	10.6
MAR.							
01...	--	2	0	32	5.3	13.5	9.3
22...	--	1	0	35	4.8	15.5	9.8
APR.							
18...	--	--	--	--	--	17.0	9.2
MAY							
24...	--	6	0	--	5.3	23.5	8.3
JUNE							
26...	--	3	0	30	5.2	28.5	7.7
JULY							
26...	--	--	--	28	--	27.0	7.4
SEP.							
06...	--	0	0	--	4.3	24.5	7.4
11...	1130	--	--	30	--	25.0	--

03572900 TOWN CREEK NEAR GERALDINE, ALA.

LOCATION.--Lat 34°22'42", long 85°59'25", in SE¼ sec. 34, T. 7 S., R. 6 E., DeKalb County, at gaging station at bridge on State Highway 75, 0.3 mile (0.5 km) downstream from Reedy Creek, 0.9 mile (1.4 km) upstream from Traylor Branch, 2 miles (3.2 km) north northeast of Geraldine, 15 miles (24.1 km) northeast of Albertville, and at mile 20.4 (32.8 km).

DRAINAGE AREA.--141 mi^2 (365 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to February 1972.
Water temperatures: April 1968 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 27.0°C Sept. 8, 10, 12; minimum, 3.5°C Jan. 13-14, Feb. 18.

Period of record:
Water temperatures: Maximum, 32.0°C June 27-30, 1969; minimum, 2.0°C on several days in 1968, 1969, and 1970.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965-68.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT. 04...	32	45	17.5
NOV. 08...	113	50	12.0
DEC. 21...	782	72	11.0
FEB. 22...	292	75	5.0
MAR. 28...	379	80	12.0
MAY 02...	314	40	16.0
JUNE 07...	367	55	21.0
JULY 11...	269	95	23.0
SEP. 19...	1.2	--	19.0

03572900 TOWN CREEK NEAR GERALDINE, ALA.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	16.0	16.0	14.5	8.5	7.0	11.0	10.0	8.5	5.5	10.5	8.0
2	18.5	15.0	17.0	16.0	8.0	6.5	10.0	9.5	9.0	8.5	10.0	9.0
3	18.0	15.5	17.0	16.5	8.0	6.5	10.0	9.5	8.5	6.5	10.5	9.5
4	17.0	16.5	16.5	14.5	9.0	7.0	10.0	9.5	7.0	5.5	10.5	9.5
5	18.0	17.0	15.0	13.5	11.5	9.0	9.5	9.0	8.5	6.5	11.5	10.5
6	18.0	17.0	14.5	13.0	13.0	11.5	9.0	8.5	10.0	8.5	13.0	10.5
7	18.0	16.5	14.0	13.5	11.5	9.5	8.5	6.5	10.0	9.0	13.5	13.0
8	18.0	15.5	14.0	12.0	10.0	9.5	7.0	6.0	10.0	8.5	13.5	12.0
9	18.0	15.0	13.0	11.0	12.0	10.0	6.5	6.0	8.5	5.5	14.5	13.5
10	18.0	15.5	13.0	11.0	13.5	12.0	6.0	5.5	5.5	5.0	14.0	14.0
11	18.0	15.0	12.0	11.0	13.0	11.5	6.0	5.5	5.5	4.0	14.5	13.5
12	18.0	15.0	13.0	10.0	12.0	11.5	5.5	4.5	5.5	4.5	14.0	13.0
13	19.0	16.5	13.0	11.0	13.0	12.0	4.5	3.5	5.5	5.0	14.0	12.0
14	19.0	17.0	13.5	12.0	12.0	12.0	4.5	3.5	7.0	5.5	15.5	13.5
15	19.0	17.0	12.0	10.5	13.0	11.0	6.0	4.5	7.0	6.5	15.5	15.0
16	18.0	15.5	10.5	9.5	11.0	8.0	6.0	5.0	6.5	5.0	15.0	13.5
17	19.0	16.5	10.0	8.5	8.0	6.5	6.0	5.0	5.0	4.0	13.5	10.5
18	18.0	14.0	9.0	8.0	6.5	5.5	8.5	6.0	5.0	3.5	11.5	10.0
19	16.5	14.0	9.5	8.5	8.0	6.0	9.5	8.5	6.0	4.0	12.0	10.0
20	14.0	12.0	9.5	9.5	10.5	8.0	9.0	7.0	5.5	5.0	13.0	11.5
21	13.0	10.5	9.5	9.0	11.0	10.5	8.5	8.0	5.5	4.0	13.0	10.5
22	14.0	11.5	10.0	9.0	11.0	10.5	9.0	8.5	6.0	4.0	12.0	10.0
23	15.5	14.0	9.0	8.0	10.5	10.0	9.0	8.0	6.5	4.5	12.0	10.0
24	15.5	14.0	8.0	6.0	11.0	9.5	8.0	6.5	7.0	5.0	12.0	10.5
25	14.5	13.0	7.0	6.5	9.5	9.5	7.0	6.0	7.0	6.0	13.0	11.0
26	13.5	11.0	8.0	6.5	9.5	8.5	8.0	7.0	8.5	7.0	13.0	11.5
27	13.5	13.0	8.0	8.0	8.5	7.0	8.5	8.0	10.5	8.0	12.0	11.0
28	13.5	13.5	9.0	8.0	8.0	6.5	8.0	8.0	10.0	8.0	13.5	11.0
29	14.5	13.5	8.5	8.0	9.0	8.0	8.0	5.5	---	---	13.5	12.0
30	14.5	13.5	9.0	8.5	11.0	9.0	5.5	4.5	---	---	13.5	12.0
31	16.0	14.5	---	---	11.5	11.0	6.0	4.5	---	---	13.5	13.0
MONTH	19.0	10.5	17.0	6.0	13.5	5.5	11.0	3.5	10.5	3.5	15.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	16.5	14.5	18.5	16.5	22.0	20.5	24.0	23.0	26.0	23.0
2	14.5	12.0	17.0	15.5	19.5	17.0	21.5	20.0	25.0	22.0	26.0	22.0
3	14.5	12.0	17.0	16.0	20.5	18.5	24.0	20.5	24.5	21.0	26.5	21.0
4	14.5	12.0	16.5	14.0	21.0	19.0	24.0	21.5	24.5	20.5	25.5	21.0
5	13.0	11.5	16.0	13.5	21.5	19.5	23.0	21.0	24.5	20.5	25.0	21.0
6	13.0	10.5	15.0	14.0	21.0	19.5	23.5	21.0	24.5	21.5	21.5	20.5
7	12.0	11.0	16.0	14.0	20.0	19.0	23.0	21.5	25.5	21.5	24.5	21.5
8	13.0	11.0	17.0	15.0	20.5	18.5	23.5	21.0	25.5	22.0	27.0	20.5
9	12.0	11.0	17.0	15.5	21.0	19.5	23.5	21.5	25.5	22.0	26.5	20.5
10	11.0	9.5	18.0	15.5	21.0	20.0	24.5	21.5	25.5	23.0	27.0	20.5
11	11.0	8.5	19.0	14.0	22.0	20.0	24.0	22.0	24.0	23.0	25.5	21.0
12	12.0	9.0	18.5	14.5	20.5	20.0	24.0	21.5	25.5	23.5	27.0	18.0
13	13.5	10.5	17.0	15.5	21.5	19.5	24.5	21.0	24.5	23.5	21.5	19.5
14	13.5	10.5	17.0	15.0	21.0	20.0	24.0	23.0	24.5	22.0	23.0	20.5
15	15.0	11.5	17.0	15.0	21.5	20.0	25.5	23.0	25.0	23.0	24.5	19.5
16	15.0	14.0	17.0	14.0	21.0	20.0	24.5	23.0	25.0	23.0	25.0	19.0
17	15.0	14.5	18.0	14.5	21.5	20.0	23.5	22.0	23.5	22.0	24.0	19.5
18	15.5	14.5	17.0	13.5	22.0	20.5	23.5	22.0	24.5	21.5	21.5	16.5
19	17.0	15.0	16.0	14.0	21.5	20.5	24.0	21.5	25.0	21.5	22.0	13.5
20	19.5	16.0	16.0	14.5	22.0	20.5	23.5	22.0	25.0	21.0	23.5	13.5
21	20.0	17.0	16.5	14.5	21.5	20.5	24.0	21.5	25.0	21.5	22.0	15.5
22	19.5	18.0	16.5	14.5	21.5	20.0	24.5	22.0	24.0	20.5	22.0	16.5
23	18.5	17.0	18.0	16.0	21.5	20.0	25.0	23.0	24.0	20.0	22.0	19.0
24	18.0	14.0	18.0	16.5	22.0	20.0	26.0	23.5	24.0	20.5	25.0	18.0
25	17.0	14.0	17.0	15.5	22.0	19.5	25.0	23.0	24.0	21.0	25.0	16.5
26	16.5	15.5	18.5	16.0	23.0	20.0	24.0	23.0	22.0	21.0	20.5	18.5
27	15.5	14.0	19.0	17.0	23.5	20.5	24.0	23.0	25.0	21.5	23.5	19.0
28	15.0	13.0	19.0	18.0	22.0	20.5	25.0	21.5	24.0	22.0	26.0	20.0
29	15.0	13.0	18.0	16.5	21.5	19.5	25.5	22.0	26.5	22.0	21.5	19.5
30	14.0	13.5	18.0	16.0	22.0	20.0	25.0	23.0	26.5	23.0	20.5	19.0
31	---	---	18.0	16.0	---	---	24.0	22.0	26.5	23.0	---	---
MONTH	20.0	8.5	19.0	13.5	23.5	16.5	26.0	20.0	26.5	20.0	27.0	13.5

03575000 FLINT RIVER NEAR CHASE, ALA.

LOCATION.--Lat 34°49'08", long 86°28'52", in SW¼ sec. 36, T. 2 S., R. 1 E., Madison County, on left bank 250 ft (76.2 m) downstream from Nashville, Chattanooga and St. Louis Railway bridge, 0.2 mile (0.3 km) downstream from highway bridge, 0.3 mile (0.5 km) downstream from Brier Fork, 5 miles (8 km) northeast of Chase, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--342 mi^2 (886 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1973.
Water temperatures: May 1964 to September 1967, November 1970 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 25.5°C July 23-26; minimum, 3.5°C Jan. 13.

Period of record:
Water temperatures: Maximum, 28.5°C Aug. 4, 1965; minimum, 1.5°C Feb. 3, 1965, Feb. 16, 1972.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, and 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV. 02...	300	7.2	60	15	20	3.4	1.3	1.3	--	--	6.6	2.8
DEC. 06...	914	5.5	30	20	18	2.7	1.2	1.5	--	--	5.2	2.6
JAN. 19...	570	5.2	100	10	18	2.6	1.2	.5	--	--	4.8	2.8
FEB. 20...	776	5.6	60	10	17	2.3	1.4	.6	--	--	5.2	2.8
MAR. 27...	1200	5.4	120	20	21	2.7	1.1	.7	--	--	5.2	2.2
MAY 02...	510	5.9	160	0	21	2.9	1.5	.8	70	0	4.4	1.6
JUNE 05...	259	7.1	40	20	19	3.1	1.2	.8	--	--	2.6	2.2
JULY 10...	356	5.4	30	30	14	2.4	1.3	1.6	--	--	4.6	2.2
SEP. 25...	107	6.8	50	40	18	3.9	.9	.9	73	0	3.3	1.8

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
NOV. 02...	.1	.60	--	78	78	.11	64	9	.1	--	--
DEC. 06...	.4	.40	--	--	68	.09	56	9	.1	--	--
JAN. 19...	.1	.00	--	--	64	.09	56	9	.1	--	--
FEB. 20...	.1	.80	--	--	65	.09	52	10	.1	--	--
MAR. 27...	.2	.50	--	79	73	.11	64	12	.1	--	--
MAY 02...	.1	.70	--	89	75	.12	65	8	.1	130	--
JUNE 05...	.0	1.0	--	73	74	.10	61	7	.1	149	--
JULY 10...	.1	.60	--	58	53	.08	45	13	.1	--	--
SEP. 25...	.0	--	.75	80	75	.11	61	1	.1	128	7.6

03575000 FLINT RIVER NEAR CHASE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
11...	146	--	--	130	--	16.5	--
NOV.							
01...	354	--	--	135	--	17.5	--
02...	--	68	0	132	7.0	18.0	8.4
DEC.							
04...	458	--	--	103	--	12.0	--
06...	--	58	0	114	7.2	14.0	9.4
JAN.							
19...	--	58	0	116	7.3	10.0	11.2
FEB.							
07...	1050	--	--	120	--	12.0	--
20...	--	52	0	106	7.4	8.0	11.2
MAR.							
27...	--	64	0	127	7.0	12.5	10.2
APR.							
20...	567	--	--	105	--	19.0	--
MAY							
02...	--	--	--	--	7.2	17.0	9.0
JUNE							
01...	494	--	--	--	--	18.5	--
05...	--	--	0	--	7.6	--	11.3
29...	284	--	--	165	--	19.0	--
JULY							
10...	--	39	0	99	6.6	24.0	8.2
30...	100	--	--	--	--	21.0	--
SEP.							
06...	107	--	--	158	--	22.0	--
20...	110	--	--	--	--	19.0	--
25...	--	--	--	--	--	21.5	10.8

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	18.0	16.5	9.5	8.5	11.5	10.0	10.5	8.0	11.0	9.5
2	18.0	15.5	18.0	17.0	9.5	8.5	10.0	9.5	10.5	9.5	12.0	11.0
3	18.0	16.0	17.0	16.0	10.5	9.0	9.5	9.5	9.5	8.0	13.0	11.5
4	18.0	17.0	16.0	15.0	13.0	10.5	9.5	9.0	8.5	7.0	13.0	12.0
5	19.0	18.0	15.0	14.0	15.0	13.0	9.5	9.0	10.5	8.5	14.5	13.0
6	19.0	18.0	15.0	14.0	15.0	11.5	9.0	7.0	13.0	10.5	15.5	13.5
7	19.0	17.0	14.5	14.5	11.5	9.5	7.0	5.0	11.5	11.0	17.0	15.5
8	19.0	16.0	15.0	14.0	11.0	9.5	5.5	5.0	11.5	7.0	17.0	15.0
9	18.5	15.5	14.0	13.0	13.5	11.0	5.5	5.0	7.0	5.5	16.5	15.5
10	19.0	14.0	14.5	13.5	14.5	11.5	5.5	4.5	5.5	4.5	16.5	16.0
11	18.5	16.0	14.0	13.5	11.5	10.0	5.5	4.5	6.5	5.0	16.5	16.0
12	19.5	16.5	14.0	12.0	13.0	10.0	5.0	4.0	6.5	6.0	16.0	15.0
13	20.0	18.0	15.0	13.0	13.5	11.5	5.0	3.5	6.5	6.5	16.0	15.0
14	20.0	18.5	15.0	13.5	11.5	11.0	6.0	4.5	8.0	6.0	18.0	16.0
15	20.5	18.5	11.5	11.0	11.0	9.0	8.0	6.0	8.5	7.0	18.0	15.5
16	19.0	17.0	11.0	10.5	9.0	6.5	8.0	6.0	7.0	5.5	15.5	13.5
17	20.0	18.0	11.0	9.5	6.5	5.5	8.5	7.0	6.0	5.0	13.5	10.0
18	19.0	16.0	9.5	9.5	6.5	5.5	11.0	8.5	6.5	5.0	12.0	10.0
19	16.5	16.0	11.0	9.5	9.5	6.0	11.5	9.5	8.5	5.0	14.0	11.5
20	14.0	13.0	11.0	10.0	11.0	9.5	10.0	9.0	8.5	7.0	14.5	13.5
21	14.0	12.0	10.5	10.0	11.5	11.0	9.5	9.0	8.5	6.5	14.0	11.5
22	15.0	13.0	10.5	9.5	11.5	10.0	9.5	9.0	9.0	6.5	13.5	11.5
23	16.0	15.0	9.5	8.5	10.0	10.0	9.5	8.5	10.0	7.0	14.0	11.5
24	16.0	15.0	9.0	7.0	10.0	10.0	9.0	8.0	10.5	8.5	14.0	13.0
25	15.0	13.5	9.0	8.5	10.0	9.5	9.0	7.0	11.0	9.5	14.0	12.0
26	14.0	13.0	9.0	8.5	9.5	8.5	9.5	9.0	12.0	10.0	14.0	13.0
27	14.5	13.5	10.0	8.5	8.5	8.0	9.0	9.0	11.5	9.5	14.0	13.0
28	15.0	14.5	10.5	10.0	9.0	7.0	9.5	8.0	10.5	9.0	15.0	13.5
29	15.5	15.0	10.0	9.5	10.0	8.5	8.0	5.5	---	---	14.5	14.0
30	15.5	14.5	10.0	9.5	12.0	10.0	6.5	5.0	---	---	15.0	14.0
31	16.5	15.5	---	---	13.0	11.5	8.0	6.0	---	---	16.5	15.0
MONTH	20.5	12.0	18.0	7.0	15.0	5.5	11.5	3.5	13.0	4.5	18.0	9.5

03575000 FLINT RIVER NEAR CHASE, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	19.5	16.0	20.5	18.5	23.0	21.0	23.5	22.0	23.5	22.0
2	16.0	14.5	18.5	17.0	21.5	19.5	23.0	21.0	23.5	23.0	24.0	22.0
3	16.5	15.0	18.5	16.5	22.0	20.0	24.0	22.0	23.0	21.5	24.0	22.0
4	16.0	13.5	18.0	15.5	23.0	20.5	24.0	22.0	23.0	21.0	24.0	23.0
5	13.5	13.0	17.0	15.5	22.0	21.0	24.0	22.0	23.0	21.0	24.0	22.0
6	14.0	11.5	16.5	15.5	21.5	20.5	24.0	22.0	23.5	21.0	23.5	22.0
7	14.0	12.0	16.5	15.5	21.5	16.0	23.5	22.0	24.0	21.5	23.5	22.0
8	13.5	12.0	19.0	16.5	22.0	20.0	24.0	21.5	24.0	22.0	24.0	22.0
9	14.0	12.0	19.5	18.0	22.0	21.0	23.5	22.0	24.0	23.0	24.5	23.0
10	12.0	10.0	19.5	18.0	23.5	21.0	24.0	22.0	24.5	22.0	24.5	23.5
11	11.5	9.5	19.5	18.5	23.5	21.0	23.5	22.0	24.5	23.0	24.0	23.0
12	13.5	11.0	19.0	17.0	21.5	20.5	23.5	21.5	24.5	23.0	23.5	21.5
13	14.5	12.0	18.5	16.5	23.5	20.5	24.0	21.5	24.0	23.0	22.0	21.5
14	15.5	13.0	18.5	16.0	23.5	21.0	23.5	22.0	24.0	23.0	22.0	21.0
15	16.0	14.0	18.5	16.0	23.5	21.5	24.0	21.5	24.0	22.0	23.0	21.5
16	16.5	15.5	18.5	15.0	24.5	21.5	23.0	21.5	23.5	22.0	23.0	21.5
17	16.0	15.5	19.0	16.0	25.0	22.0	23.0	21.5	23.0	21.5	23.0	21.5
18	17.0	16.0	18.5	15.5	25.0	22.0	23.5	22.0	23.5	21.5	22.0	19.5
19	18.5	16.0	18.0	16.0	24.0	22.0	24.0	22.0	23.5	21.5	20.5	19.0
20	20.0	18.0	17.0	16.0	24.5	21.5	24.5	23.5	24.0	21.5	19.5	18.5
21	20.5	18.5	19.0	16.5	23.0	21.5	24.5	23.5	24.0	21.5	20.5	19.0
22	19.5	18.5	19.5	17.0	23.0	21.0	25.0	23.5	23.5	21.0	21.5	20.0
23	18.5	18.0	19.5	18.5	23.5	20.5	25.5	23.5	23.0	21.0	22.0	21.0
24	18.5	17.0	19.0	18.0	24.0	20.5	25.5	23.5	23.0	21.0	23.0	21.0
25	18.5	18.0	19.0	18.0	21.5	19.5	25.0	23.5	23.5	21.5	23.0	21.0
26	18.0	16.0	20.0	18.5	23.5	21.0	25.0	23.5	23.5	21.5	22.0	21.0
27	16.0	14.5	20.5	19.5	23.5	21.5	24.5	23.5	24.0	21.5	23.0	21.5
28	15.5	14.0	20.0	19.0	21.5	20.5	25.0	23.5	24.0	22.0	23.0	21.5
29	16.0	14.0	19.5	18.5	22.0	20.0	25.0	23.0	24.0	22.0	22.0	21.5
30	17.0	15.5	19.5	18.0	23.0	21.0	24.0	23.0	24.0	22.0	21.5	21.0
31	---	---	20.0	18.0	---	---	23.0	22.0	23.5	23.0	---	---
MONTH	20.5	9.5	20.5	15.0	25.0	16.0	25.5	21.0	24.5	21.0	24.5	18.5

03575696 ALDRIDGE CREEK NEAR LILY FLAGG, ALA.

LOCATION.--Lat 34°37'44", long 86°32'23", in [illegible] sec. 4, T. 5 S., R. 1 E., Madison County, at bridge on Green Mountain Road, and 2.1 miles (3.4 km) southeast of Lily Flagg, Ala.

DRAINAGE AREA.--13.9 mi^2 (36.0 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV. 02...	18	6.2	50	70	74	6.0	2.0	1.5	--	--	14	6.4
DEC. 06...	47	6.3	80	20	55	5.8	1.7	3.0	--	--	14	4.9
JAN. 19...	16	.7	80	50	56	5.2	1.6	2.9	--	--	15	6.6
FEB. 20...	19	6.1	0	20	71	5.3	2.7	.5	--	--	12	5.0
MAR. 27...	31	6.5	80	33	74	5.9	1.0	.6	--	--	14	2.0
MAY 02...	15	6.3	70	20	68	6.3	2.1	.8	216	0	13	4.2
JUNE 05...	6.5	6.4	70	30	67	6.3	3.1	1.0	--	--	11	5.0
JULY 10...	1.0	5.2	30	40	66	5.1	3.9	1.6	--	--	12	11
SEP. 25...	--	5.4	20	40	75	6.6	3.9	.8	222	0	13	11

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
NOV. 02...	.2	1.2	--	--	230	.32	210	20	.1	--	--
DEC. 06...	.4	.05	--	170	179	.24	160	15	.1	--	--
JAN. 19...	.2	.02	--	--	173	.24	160	19	.1	--	--
FEB. 20...	.2	1.2	--	--	215	.29	200	22	.1	--	--
MAR. 27...	.2	5.6	--	--	230	.32	210	32	.1	--	--
MAY 02...	.2	1.2	--	--	212	.29	200	23	.1	--	--
JUNE 05...	.1	1.0	--	200	209	.28	190	17	.1	--	7.7
JULY 10...	.2	1.4	--	--	205	.28	190	30	.1	--	--
SEP. 25...	.2	--	1.1	220	230	.31	210	32	.1	--	--

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV. 02...	232	0	400	7.2	10.0	8.6
DEC. 06...	177	0	315	7.6	13.0	9.9
JAN. 19...	172	0	330	7.5	12.0	10.7
FEB. 20...	210	0	380	8.0	12.0	11.2
MAR. 27...	221	0	405	8.0	17.0	10.0
MAY 02...	--	--	--	--	18.0	10.4
JUNE 05...	212	0*	--	8.0	20.5	--
JULY 10...	195	0	380	7.8	28.5	11.5
SEP. 25...	--	--	466	7.9	25.5	12.0

03575950 HUNTSVILLE SPRING BRANCH AT JOHNSON ROAD NEAR HUNTSVILLE, ALA.

LOCATION.--Lat 34°41'26", long 86°35'47", in [illegible] sec. 14, T. 4 S., R. 1 W., Madison County at bridge on Johnson Road, 2.3 miles (3.7 km) southeast of West Station Post Office in Huntsville, Ala., and at mile 12.2 (19.6 km).

DRAINAGE AREA.--41.8 mi^2 (108.3 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV. 01...	23	5.6	10	10	50	5.4	3.7	1.6	--
DEC. 07...	21	6.9	70	10	56	4.8	2.4	1.2	--
JAN. 18...	72	8.8	30	40	50	4.9	2.2	.9	--
FEB. 21...	84	6.7	100	10	51	4.3	2.3	.6	--
MAR. 27...	137	6.9	40	34	50	4.3	1.9	.7	156
MAY 02...	65	6.7	--	--	49	4.4	2.3	.6	--
JUNE 05...	38	5.6	30	0	46	4.9	2.3	.8	152
JULY 11...	54	4.6	150	60	35	2.4	2.4	3.0	--
SEP. 26...	8.1	5.2	10	30	36	4.4	5.1	[illegible]	118

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 01...	--	11	5.6	.2	.9	--	--	--	--
DEC. 07...	--	12	3.4	.1	.8	--	--	.05	.000
JAN. 18...	--	7.6	3.4	.1	1.3	--	--	--	--
FEB. 21...	--	6.6	4.2	.2	1.5	--	--	--	--
MAR. 27...	0	9.0	3.4	.2	.7	--	--	--	--
MAY 02...	--	6.8	3.8	.1	2.0	--	.20	.13	.046
JUNE 05...	0	4.4	3.8	.1	1.3	--	--	--	--
JULY 11...	--	11	3.6	.2	.7	--	.19	.21	.15
SEP. 26...	0	8.1	8.4	.2	--	.49	.20	.20	.016

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
NOV. 01...	--	168	.23	150	15	.1	--	--	--
DEC. 07...	192	178	.26	160	14	.1	--	--	2
JAN. 18...	156	164	.21	140	7	.1	--	--	--
FEB. 21...	--	160	.22	140	12	.1	--	--	--
MAR. 27...	--	156	.21	140	12	.1	--	7.3	--
MAY 02...	--	160	.22	140	12	.1	--	--	5
JUNE 05...	150	149	.20	140	16	.1	266	--	--
JULY 11...	127	120	.17	98	8	.1	214	--	9
SEP. 26...	127	129	.17	110	11	.2	235	7.9	10

03575950 HUNTSVILLE SPRING BRANCH AT JOHNSON ROAD NEAR HUNTSVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV. 01...	165	0	305	7.6	20.0	12.0
DEC. 07...	180	0	295	7.6	7.0	12.8
JAN. 18...	162	0	280	7.6	12.0	12.6
FEB. 21...	157	0	268	7.9	8.5	12.0
MAR. 27...	--	--	[illegible]	--	17.0	13.2
MAY 02...	157	0	[illegible]	[illegible]	20.0	12.0
JUNE 05...	--	--	--	[illegible]	23.5	--
JULY 11...	110	0	--	[illegible]	23.5	7.6
SEP. 26...	--	--	--	--	[illegible]	[illegible]

03575900 HUNTSVILLE SPRING BRANCH UPSTREAM FROM SEWAGE TREATMENT PLANT NEAR HUNTSVILLE, ALA.

LOCATION.--Lat 34°40'40", long 86°36'23", in SW1/4SE1/4 sec. 33, T. 4 S., R. 1 W., Madison County, 2,000 ft (600 m) upstream from sewage plant effluent, 1.5 miles (2.4 km) east of Memorial Parkway in Huntsville, Ala., and at mile 11.8 (19.0 km).

DRAINAGE AREA.--45.7 mi² (118.4 km²).

PERIOD OF RECORD.--Chemical analyses: May 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV. 02...	144	8.1	90	12	21	1.5	2.2	2.6	--	--
DEC. 08...	19	6.6	160	60	57	9.0	3.4	1.5	--	--
JAN. 19...	84	5.9	890	50	44	4.3	2.7	1.5	--	--
FEB. 21...	85	6.4	40	20	50	4.1	2.7	.8	--	--
MAR. 28...	184	6.8	40	60	54	4.3	2.1	.6	165	0
MAY 02...	67	6.6	10	10	52	4.5	2.6	1.0	160	0
JUNE 05...	30	5.1	50	0	38	4.6	3.3	.9	124	4
JULY 11...	56	6.7	140	30	35	2.6	2.9	3.2	--	--
SEP. 26...	8.1	4.2	10	10	27	6.2	5.4	1.6	90	0

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
NOV. 02...	7.2	3.2	.2	.30	--	--	--	--	--
DEC. 08...	12	4.8	.2	1.0	--	--	.05	.080	192
JAN. 19...	10	4.8	.1	1.1	--	--	--	--	144
FEB. 21...	7.0	4.4	.2	4.1	--	--	--	--	--
MAR. 28...	8.4	4.5	.2	1.4	--	--	--	--	--
MAY 02...	7.4	4.1	.1	2.5	--	--	--	--	--
JUNE 05...	4.2	4.2	.1	1.2	--	--	--	--	--
JULY 11...	10	4.0	.2	.90	--	.08	.23	.050	--
SEP. 26...	7.5	8.0	.5	--	.97	.08	.34	.010	108

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
NOV. 02...	73	.10	50	0	.1	--	--	--	--
DEC. 08...	192	.26	180	--	.1	--	--	16	--
JAN. 19...	127	.20	130	37	.1	--	--	--	--
FEB. 21...	161	.22	140	18	.1	--	--	--	--
MAR. 28...	169	.23	150	15	.1	--	7.9	--	--
MAY 02...	169	.23	150	19	.1	--	--	--	--
JUNE 05...	129	.18	110	6	.1	--	8.5	--	--
JULY 11...	148	.20	99	6	.1	--	--	11	--
SEP. 26...	107	.15	85	11	.3	196	7.4	10	.5

[illegible] HUNTSVILLE SPRING BRANCH UPSTREAM FROM SEWAGE TREATMENT PLANT NEAR HUNTSVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
07...	65	0	128	7.1	19.0	7.2
DEC.						
08...	178	0	325	7.7	11.0	10.4
JAN.						
19...	114	12	262	8.5	15.0	10.4
FEB.						
21...	137	6	266	8.6	14.5	12.0
MAR.						
20...	--	--	300	--	15.0	12.4
MAY						
02...	--	--	--	--	19.0	11.6
JUNE						
05...	--	--	199	--	22.5	--
JULY						
11...	116	0	218	7.5	24.0	7.5
SEP.						
26...	--	--	--	--	20.0	6.2

[illegible] HUNTSVILLE SPRING BRANCH AT MARTIN ROAD NEAR HUNTSVILLE, ALA.

LOCATION.--Lat 34°39'29", long 86°36'10", in [illegible] sec. 20, T. 4 S., R. 1 W., Madison County, at bridge on Martin Road, 2.2 miles (3.5 km) northwest of Farley Station Post Office in Huntsville, Ala., and at mile 9.8 (15.8 km).

DRAINAGE AREA.--46.9 mi² (121.5 km²).

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water year 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV. 02...	212	4.2	20	27	33	3.2	7.2	2.6	--	--
DEC. 08...	50	8.0	30	90	56	4.8	12	2.2	--	--
JAN. 19...	119	7.3	40	70	40	4.2	11	2.7	--	--
FEB. 21...	130	7.0	30	60	49	4.0	7.5	1.3	136	4
MAR. 28...	125	7.6	60	90	43	4.1	7.0	1.9	--	--
MAY 02...	103	7.0	30	90	45	4.3	14	3.0	136	0
JUNE 05...	72	8.0	40	50	41	4.8	20	4.4	--	--
JULY 11...	74	6.7	90	120	53	3.3	13	6.2	103	0
SEP. 26...	29	9.6	20	100	39	5.2	47	6.4	143	0

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
NOV. 02...	11	7.2	.3	1.4	--	--	--	--	--
DEC. 08...	17	9.9	.6	.7	--	--	--	--	200
JAN. 19...	58	10	.3	6.5	--	--	--	--	174
FEB. 21...	10	6.8	.3	4.1	--	--	--	--	168
MAR. 28...	12	9.6	.3	3.6	--	--	--	--	--
MAY 02...	16	13	.3	5.2	--	--	--	--	219
JUNE 05...	20	13	.4	3.2	--	--	--	--	204
JULY 11...	17	12	.5	3.6	--	.20	.19	.12	162
SEP. 26...	35	42	.6	1.2	8.1	--	--	--	307

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
NOV. 02...	136	.18	96	6	.3	--	--	--	--
DEC. 08...	204	.27	160	11	.4	--	--	--	--
JAN. 19...	172	.24	120	26	.4	--	--	--	--
FEB. 21...	176	.23	140	24	.3	--	8.6	--	--
MAR. 28...	163	.22	120	19	.3	--	--	--	--
MAY 02...	194	.30	130	19	.5	328	--	--	--
JUNE 05...	199	.28	140	20	.8	339	--	--	--
JULY 11...	159	.22	150	66	.6	--	7.9	11	--
SEP. 26...	261	.42	120	2	1.9	529	6.8	--	4.2

03575960 HUNTSVILLE SPRING BRANCH AT MARTIN ROAD NEAR HUNTSVILLE, ALA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

FIELD ANALYSES

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV.						
02...	114	0	235	7.3	19.5	7.6
DEC.						
08...	182	0	360	7.6	12.5	9.1
JAN.						
19...	137	0	315	7.1	15.0	10.0
FEB.						
21...	--	--	300	--	14.5	11.0
MAR.						
28...	139	0	310	7.7	14.0	9.8
MAY						
02...	--	--	--	--	19.0	9.8
JUNE						
05...	147	0	--	7.8	27.0	--
JULY						
11...	--	--	276	--	24.5	6.9
SEP.						
26...	--	--	--	--	28.0	4.1

03577150 TENNESSEE RIVER AT DECATUR, ALA.

LOCATION.--Lat 34°36'47", long 86°58'26", in NE¼ sec. 17, T. 5 S., R. 4 W., Morgan County, temperature recorder at gaging station at Keller Memorial Bridge on U.S. Highway 31 at Decatur, 0.5 mile (0.8 km) upstream from Southern Railway bridge, 3.8 miles (6.1 km) downstream from Flint Creek, 30 miles (48 km) upstream from Wheeler Dam, and at mile 305 (491 km).

DRAINAGE AREA.--26,900 mi² (69,671 km²).

PERIOD OF RECORD.--Water temperatures: February 1970 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum recorded, 30.0°C July 25-29; minimum, 5.0°C Jan. 15, Feb. 17.

Period of record:
Water temperatures: Maximum, 30.0°C July 11-13, 1971, Aug. 20, 1972, July 25-29, 1973; minimum, 4.0°C Feb. 14, 16, 1971.

REMARKS.--Records furnished by Tennessee Valley Authority. No temperature data Aug. 2-5 because of recorder malfunction.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL - ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.5	25.0	17.0	17.0	10.5	10.0	10.0	9.5	8.0	7.0	8.5	8.0
2	25.0	24.0	17.0	17.0	10.5	10.0	10.0	9.5	8.0	7.0	9.0	8.5
3	24.0	23.5	18.0	17.0	10.5	10.0	10.0	9.5	7.0	7.0	9.0	9.0
4	23.5	23.0	18.0	17.0	10.5	10.0	10.0	9.0	7.0	7.0	9.5	9.0
5	23.0	23.0	18.0	17.0	10.5	10.0	9.5	9.5	8.0	7.0	10.0	9.5
6	23.0	23.0	18.0	17.0	10.5	10.0	9.5	9.0	8.5	8.0	10.5	10.0
7	23.0	23.0	17.0	17.0	10.0	10.0	9.0	8.5	8.5	8.0	11.5	10.5
8	23.0	22.0	17.0	16.5	10.5	10.0	8.5	8.0	8.5	8.0	12.0	11.0
9	22.0	21.5	16.5	16.0	10.5	10.5	8.0	7.0	8.0	8.0	12.0	11.5
10	22.0	21.5	16.5	16.0	10.5	10.0	7.0	6.5	8.0	7.0	13.0	12.0
11	21.5	21.5	16.0	16.0	10.0	10.0	6.5	6.0	7.0	6.5	13.5	13.0
12	21.5	21.5	16.0	15.5	10.5	10.0	[illegible]	5.5	6.5	6.5	14.5	13.5
13	21.5	21.5	16.0	15.5	10.5	10.0	5.5	5.5	6.5	6.0	15.0	14.0
14	22.0	21.5	15.5	15.0	10.5	10.0	5.5	5.5	6.5	6.0	15.5	14.5
15	22.0	21.5	15.0	14.5	10.5	10.5	6.0	5.0	6.5	6.0	15.5	15.5
16	21.5	21.5	14.5	14.5	10.5	10.0	6.0	5.5	6.0	5.5	15.5	15.0
17	21.5	21.5	14.5	14.0	10.0	9.0	6.0	5.5	5.5	5.0	15.0	14.0
18	21.5	21.5	14.0	13.5	9.0	8.5	6.5	5.5	5.5	5.5	14.0	13.5
19	21.5	20.5	13.5	13.0	9.0	8.5	7.0	6.0	6.0	5.5	13.5	13.5
20	20.5	20.0	13.0	12.0	9.0	9.0	7.0	6.5	6.0	5.5	13.5	13.5
21	20.0	19.5	12.0	11.5	9.0	9.0	7.0	7.0	6.0	5.5	13.5	13.0
22	19.5	19.0	12.0	11.5	9.0	9.0	8.0	7.0	6.5	5.5	13.0	13.0
23	19.0	18.5	11.5	11.0	9.0	9.0	8.0	8.0	7.0	6.0	13.5	13.0
24	18.5	18.5	11.5	11.0	9.5	9.0	8.5	8.0	7.0	6.0	13.5	13.5
25	18.5	17.0	11.0	11.0	9.0	9.0	8.5	8.0	8.0	6.5	13.5	13.5
26	18.0	17.0	11.0	10.5	9.0	8.5	8.5	8.5	8.0	7.0	13.5	13.5
27	18.0	17.0	10.5	10.5	9.0	8.5	8.5	8.5	8.0	7.0	13.5	13.5
28	17.0	17.0	10.5	10.5	9.0	8.5	8.5	8.0	8.0	7.0	14.0	13.5
29	17.0	17.0	10.5	10.0	9.0	9.0	8.0	7.0	---	---	14.0	13.5
30	17.0	16.5	10.5	10.0	9.5	9.0	8.0	7.0	---	---	14.0	14.0
31	17.0	17.0	---	---	9.5	9.5	8.0	7.0	---	---	14.5	14.0
MONTH	25.5	16.5	18.0	10.0	10.5	8.5	10.0	5.0	8.5	5.0	15.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	18.5	18.0	21.5	21.5	27.0	26.5	29.5	29.5	29.0	28.5
2	15.0	14.5	18.5	18.5	22.0	21.5	27.0	26.5	---	---	29.0	28.5
3	15.5	15.0	19.0	18.5	23.0	22.0	28.0	26.5	---	---	28.5	28.5
4	15.0	14.5	19.0	18.5	23.0	23.0	28.0	27.0	---	---	29.0	28.5
5	14.5	14.5	19.0	18.5	23.5	23.0	28.0	27.0	---	---	29.0	28.5
6	14.5	14.5	---	---	23.5	23.5	28.5	27.0	29.0	28.0	29.0	29.0
7	14.5	14.0	18.5	18.0	23.5	23.5	28.5	28.0	29.0	28.0	29.0	28.5
8	14.0	14.0	19.0	18.5	24.0	23.5	28.0	28.0	29.0	28.5	29.0	28.5
9	14.0	13.5	19.0	19.0	24.0	23.5	28.5	28.0	29.0	28.5	29.0	29.0
10	13.5	13.0	19.5	19.0	24.0	24.0	28.5	28.0	29.0	28.5	28.5	28.5
11	13.5	13.0	14.5	19.5	24.5	24.0	28.5	28.0	29.0	28.5	28.5	28.5
12	13.5	13.0	20.0	19.5	24.5	24.0	28.0	28.0	29.0	29.0	28.5	28.0
13	13.5	13.0	20.0	20.0	24.0	24.0	28.5	28.0	29.0	28.5	28.5	28.0
14	14.0	13.0	20.5	20.0	25.0	24.0	28.5	28.0	29.0	28.5	28.0	27.0
15	14.5	13.5	20.5	20.0	25.0	24.5	28.5	28.0	29.0	28.5	28.0	28.0
16	14.5	14.5	20.5	20.0	25.5	24.5	28.5	28.0	29.0	28.5	28.0	27.0
17	14.5	14.0	20.5	20.0	25.5	25.0	29.5	28.0	29.0	28.5	28.0	27.0
18	15.0	14.5	20.5	20.0	26.0	25.5	29.0	28.0	28.5	28.0	27.0	26.5
19	15.5	15.0	20.5	20.0	26.0	25.5	29.0	28.5	28.5	28.0	26.5	26.0
20	16.5	15.5	20.5	20.0	26.0	25.5	29.0	28.5	28.5	28.5	26.0	25.5
21	16.5	16.5	21.0	20.5	26.0	26.0	29.0	28.5	28.5	28.0	25.5	25.5
22	17.0	16.5	21.0	20.0	26.0	26.0	29.5	29.0	28.5	28.0	25.5	25.5
23	17.0	17.0	21.0	20.5	26.0	26.0	29.5	29.5	28.0	27.0	26.0	25.5
24	18.5	17.0	21.0	21.0	26.5	26.0	29.5	29.5	28.0	28.0	26.0	25.5
25	18.5	18.0	21.5	21.0	26.5	26.0	30.0	29.5	28.0	28.0	26.0	25.5
26	18.5	18.0	22.0	21.0	27.0	26.0	30.0	29.5	28.5	28.0	25.5	25.5
27	18.0	17.0	21.5	21.5	27.0	26.5	30.0	29.5	28.5	28.0	25.5	25.0
28	18.0	17.0	22.0	21.5	27.0	26.5	30.0	29.5	28.5	28.0	25.5	25.0
29	18.0	18.0	22.0	21.5	27.0	26.5	30.0	29.5	28.5	28.5	25.0	25.0
30	18.0	18.0	22.0	21.5	27.0	27.0	---	---	29.0	28.5	25.0	24.5
31	---	---	21.5	21.5	---	---	29.5	29.0	29.0	28.5	---	---
MONTH	18.5	13.0	22.0	18.0	27.0	21.5	30.0	26.5	29.5	27.0	29.0	24.5

03589500 TENNESSEE RIVER AT FLORENCE, ALA.

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ sec. 14, T. 3 S., R. 11 W., Lauderdale County, at gaging station on right bank of old lock and dam 1 canal at lower end of Patton Island, 137 ft (41.8 m) upstream from Southern Railway bridge, 700 ft (213 m) upstream from O'Neal Bridge on U.S. Highway 72, 1 mile (1.6 km) south of Florence, 1.7 miles (2.7 km) upstream from Cypress Creek, 2.7 miles (4.3 km) downstream from Wilson Dam, and at mile 256.7 (413.0 km).

DRAINAGE AREA.--30,810 mi² (79,800 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: February 1972 to September 1973.

REMARKS.--Miscellaneous samples of chemical data published for water years 1965 and 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV. 03...	73100	5.8	60	10	22	4.6	7.3	1.8	--	--	15	9.4
DEC. 05...	98200	6.3	70	60	23	4.7	6.6	2.0	--	--	15	7.2
JAN. 17...	41000	5.9	90	60	22	4.5	3.7	2.1	--	--	12	5.8
FEB. 23...	77600	5.4	160	40	20	3.4	3.0	1.0	--	--	9.2	4.0
MAR. 29...	118000	5.1	260	20	16	2.9	3.3	1.4	--	--	9.8	3.8
MAY 01...	93100	5.1	60	10	21	3.7	3.4	1.6	--	--	10	3.2
JUNE 04...	56800	6.1	60	0	18	4.0	3.7	2.0	--	--	8.6	4.2
JULY 09...	84700	4.8	180	30	17	3.9	5.2	1.8	--	--	11	4.4
SEP. 24...	29200	6.6	10	20	21	4.1	5.6	1.6	89	0	12	5.9

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
NOV. 03...	.2	.08	--	106	108	.14	74	17	.4	--	--
DEC. 05...	.4	.09	--	--	103	.14	77	13	.3	--	--
JAN. 17...	.1	.09	--	82	93	.11	74	13	.2	167	--
FEB. 23...	.2	.02	--	90	81	.13	64	5	.2	--	--
MAR. 29...	.2	.80	--	64	71	.09	52	8	.2	--	--
MAY 01...	.2	.50	--	89	84	.12	68	11	.2	150	--
JUNE 04...	.1	.60	--	82	81	.11	62	9	.2	153	--
JULY 09...	.1	.30	--	84	81	.11	59	7	.3	--	--
SEP. 24...	.2	--	.30	89	91	.12	69	13	.3	160	7.2

FIELD ANALYSES

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV. 03...	70	0	182	7.2	16.5	9.0
DEC. 05...	73	0	210	7.4	10.0	11.0
JAN. 17...	70	0	--	7.5	7.5	11.4
FEB. 23...	66	0	142	7.4	6.0	12.2
MAR. 29...	56	0	125	7.6	13.0	10.4
MAY 01...	70	0	--	7.5	17.5	9.0
JUNE 04...	65	0	--	7.7	23.5	8.7
JULY 09...	66	0	142	7.5	27.5	5.6
SEP. 24...	--	--	--	--	25.0	6.6

03591800 BEAR CREEK NEAR HACKLEBURG, ALA.

LOCATION.--Lat 34°17'01", long 87°46'26", in SW¼ sec. 11, T. 9 S., R. 12 W., Marion County, temperature recorder at gaging station on right bank at downstream side of bridge on Alabama Highway 172, 2 miles (3.2 km) upstream from Bluff Creek, 3.5 miles (5.6 km) east of Hackleburg, and at mile 106.8 (188.6 km).

DRAINAGE AREA.--143 mi^2 (370 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1965 to September 1967.
Water temperatures: March 1965 to March 1973 (discontinued).

EXTREMES.--1972-73.
Water temperatures: Minimum, 2.0°C Jan. 12-14.

Period of record:
Water temperatures: Maximum (1965-72), 31.0°C on several days in 1966 and 1969; minimum (1965-73), freezing point on several days in 1966, 1969, and 1970.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1968, 1969, and 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT., 1972			
02...	79	--	15.0
NOV.			
02...	106	45	17.5
DEC.			
06...	183	40	13.0
JAN., 1973			
03...	1500	42	9.0
MAR.			
01...	162	32	9.0
JULY			
03...	66	40	25.5
AUG.			
01...	30	45	25.0
SEP.			
04...	18	42	26.0

TEMPERATURE (°C) OF WATER, OCTOBER 1972 TO MARCH 1973

(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	16.5	18.0	16.5	9.0	8.0	10.0	8.5	9.5	5.5	9.0	6.0
2	17.0	15.5	18.0	17.0	8.0	6.5	8.5	8.0	9.5	8.5	10.0	9.0
3	18.0	15.5	17.0	16.0	8.5	7.0	9.0	8.0	8.5	7.0	12.0	10.0
4	18.0	17.0	16.0	15.0	10.5	8.5	9.5	8.5	7.0	5.5	11.5	10.5
5	18.5	17.0	15.0	13.5	12.0	10.5	9.0	8.5	8.5	6.0	12.0	11.0
6	19.0	17.0	14.0	13.0	13.5	10.0	8.5	8.0	11.0	8.5	13.5	11.5
7	18.5	18.0	14.5	13.5	10.0	8.0	8.0	6.0	11.0	10.0	15.0	13.5
8	18.0	16.0	14.0	13.0	10.0	8.0	8.5	6.0	11.0	8.5	16.5	12.0
9	17.0	16.0	13.0	11.5	13.0	10.0	6.5	5.5	8.5	6.0	16.5	13.5
10	18.0	16.0	13.5	12.0	13.5	11.0	5.5	4.5	6.0	4.5	15.0	14.5
11	19.0	16.5	13.0	11.5	11.0	9.5	4.5	3.5	5.5	4.0	15.0	14.5
12	19.0	16.5	12.0	11.0	12.0	10.0	3.5	2.0	5.5	5.0	14.5	13.0
13	19.5	18.0	13.5	11.5	12.5	10.5	3.5	2.0	5.5	5.5	14.5	13.0
14	20.5	19.0	13.5	12.0	10.5	10.0	4.0	2.0	8.0	5.5	16.0	14.5
15	20.0	19.0	12.0	10.5	10.5	9.0	4.0	3.5	8.5	7.0	16.0	16.0
16	19.5	17.0	10.5	9.0	9.0	6.5	5.5	4.5	7.0	6.0		---
17	20.5	19.0	9.0	8.5	6.5	5.0	6.0	5.0	6.0	4.5	--	---
18	19.5	19.0	8.5	8.5	5.0	4.5	9.0	8.0	5.5	4.0	---	---
19	19.5	16.5	10.0	8.5	8.5	5.0	9.5	9.0	7.0	5.5	--	---
20	16.5	13.0	10.5	9.5	10.0	8.5	9.5	8.0	7.0	6.0	---	---
21	13.5	13.0	9.5	9.0	10.5	10.0	9.0	9.0	7.0	5.0	---	--
22	15.5	13.5	9.0	8.5	10.5	9.0	9.5	8.5	6.0	5.0	---	---
23	16.5	15.5	8.5	7.0	9.0	8.5	9.0	9.0	7.0	5.5	---	---
24	16.0	15.0	7.0	5.5	8.5	8.0	6.0	6.0	8.0	6.0	---	---
25	15.0	13.0	8.0	6.5	8.0	7.0	6.5	6.0	9.0	7.0	---	---
26	13.5	11.5	8.5	8.0	8.0	6.0	8.0	6.5	9.5	8.5	---	---
27	14.5	13.5	8.5	7.0	6.0	5.5	8.5	8.0	9.5	8.5	---	---
28	16.5	16.5	10.5	8.5	6.0	4.5	8.5	8.0	9.0	8.0	---	---
29	16.5	14.0	10.5	9.0	7.0	6.0	8.0	6.0	---	---	---	---
30	15.0	14.5	9.5	9.0	10.5	7.0	8.0	6.5	---	---	--	---
31	16.5	15.0	---	---	11.0	9.5	8.5	6.5	---	---	---	---
MONTH	20.5	11.5	18.0	5.5	13.5	4.5	10.0	2.0	11.0	4.0	---	---

03592500 BEAR CREEK AT BISHOP, ALA.

LOCATION.--Lat 34°39'21", long 88°07'21", in SE¼ sec. 5, T. 5 S., R. 15 W., Colbert County, temperature recorder at gaging station on left bank 250 ft (76 m) upstream from highway bridge, 0.5 mile (0.8 km) downstream from Cedar Creek, 0.8 mile (1.3 km) southwest of Bishop, and at mile 27.3 (43.9 km).

DRAINAGE AREA.--667 mi^2 (1,728 km^2).

PERIOD OF RECORD.--Water temperatures: February 1962 to September 1973.

EXTREMES.--1972-73.
Water temperatures: Maximum, 28.5°C July 22-25, 27; minimum, 5.0°C January 12.

Period of record:
Water temperatures: Maximum, 31.0°C on several days in 1966 and 1969; minimum, freezing point Dec. 26, 27, 1963, Jan. 1-3, 1964.

REMARKS.--Temperature records furnished by Tennessee Valley Authority. Miscellaneous samples of chemical data published for water years 1965, 1966, 1968, 1969, and 1972. No temperature record Jan. 21-Feb. 1, Mar. 16-Apr. 4, Apr. 22-May 4 because of recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV.									
01...	403	79	0	7.2	79	15	170	7.5	17.0

03592500 BEAR CREEK AT BISHOP, ALA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	18.5	18.5	17.0	9.0	9.0	10.5	9.0	---	---	10.5	10.0
2	19.0	18.0	19.0	18.5	9.5	8.5	10.0	9.0	10.5	9.5	11.5	10.5
3	19.5	19.0	18.5	17.0	10.5	9.5	10.5	10.0	9.5	8.5	13.0	11.5
4	19.5	19.0	17.0	16.0	12.0	10.5	10.5	10.0	9.0	8.5	13.5	13.0
5	20.5	19.5	16.0	15.0	13.0	12.0	10.5	9.5	10.5	9.0	14.0	13.0
6	20.5	19.5	15.0	14.5	14.0	12.0	9.5	9.0	11.5	10.5	15.0	14.0
7	21.0	20.0	15.5	15.0	12.0	9.5	9.0	8.0	11.5	11.0	16.0	15.0
8	21.0	19.5	15.5	14.5	11.5	9.5	8.0	7.0	12.0	10.5	16.0	15.0
9	20.5	18.5	14.5	13.5	13.0	11.5	7.0	6.5	10.5	8.5	16.0	15.0
10	20.0	18.5	14.5	13.5	13.5	12.0	6.5	6.0	8.5	8.0	16.5	16.0
11	20.0	18.5	14.5	14.0	12.0	10.5	6.0	5.5	8.0	7.0	16.5	16.5
12	20.0	19.0	14.0	13.5	13.5	10.5	5.5	5.0	7.0	7.0	16.5	15.5
13	20.5	19.5	14.5	13.5	13.5	13.0	6.0	5.5	7.0	7.0	16.5	15.5
14	21.5	20.0	14.5	14.0	13.0	11.5	6.5	6.0	8.5	7.0	18.0	16.5
15	21.5	20.5	14.0	12.0	11.5	10.5	6.5	6.0	9.0	8.5	18.0	15.5
16	21.0	20.0	12.0	11.0	10.5	9.0	7.0	6.5	8.5	8.0	---	---
17	21.0	20.5	11.0	10.0	9.0	8.5	9.0	7.0	8.0	6.5	---	---
18	21.5	20.0	10.0	9.5	9.0	8.5	10.0	9.0	8.0	7.0	---	---
19	21.0	18.5	10.5	9.5	10.0	8.5	9.5	9.5	9.0	8.0	---	---
20	18.5	16.5	10.5	10.0	10.5	10.0	10.0	9.5	9.0	8.5	---	---
21	16.5	15.5	10.0	9.5	11.0	10.5	10.5	10.0	9.0	8.0	---	---
22	16.5	15.5	9.5	9.0	10.5	9.5	10.0	9.0	8.5	8.0	---	---
23	18.0	16.5	9.5	8.5	9.5	8.5	9.5	9.0	9.0	8.0	---	---
24	18.0	17.0	8.5	8.0	9.0	8.5	9.0	9.0	9.5	8.5	---	---
25	17.0	16.0	9.0	8.0	9.0	9.0	9.5	9.0	10.0	9.5	---	---
26	16.0	15.0	9.5	9.0	9.0	8.5	9.5	9.0	10.5	10.0	---	---
27	15.0	15.0	10.0	9.0	8.5	8.0	9.0	8.0	10.5	10.5	---	---
28	16.0	15.0	11.0	10.0	8.5	8.0	8.0	6.5	11.0	10.0	---	---
29	15.5	15.5	10.5	10.0	9.5	8.0	8.0	7.0	---	---	---	---
30	16.0	15.5	10.0	9.0	11.5	9.5	9.0	8.0	---	---	---	---
31	17.0	16.0	---	---	11.5	10.5	---	---	---	---	---	---
MONTH	21.5	15.0	19.0	8.0	14.0	8.0	10.5	5.0	12.0	6.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	23.5	21.0	25.5	24.0	26.5	25.5	25.5	24.0
2	---	---	---	---	23.5	23.0	25.5	24.5	26.0	25.5	25.5	24.5
3	---	---	---	---	24.0	23.0	26.0	24.5	25.5	25.0	25.5	25.0
4	---	---	---	---	24.5	24.0	26.5	25.0	25.0	25.0	26.0	25.5
5	14.0	13.0	18.0	17.0	24.0	23.5	26.5	23.5	25.0	24.5	26.5	25.5
6	14.5	13.5	18.0	17.0	23.5	21.5	25.0	24.0	25.0	24.5	26.0	25.5
7	14.5	13.5	17.0	17.0	21.5	21.0	25.0	24.5	25.5	25.0	25.5	25.5
8	14.5	13.5	19.5	17.0	21.5	21.0	24.5	24.0	26.0	25.5	26.0	25.5
9	14.5	13.5	20.0	19.0	23.5	21.0	24.5	23.5	26.0	25.5	26.0	25.5
10	14.0	13.0	20.5	20.0	24.5	22.0	24.5	24.0	26.5	25.5	26.5	25.5
11	13.5	12.0	20.5	20.5	24.5	24.0	25.5	24.5	26.5	25.5	26.5	25.5
12	14.5	13.0	20.5	19.5	24.5	22.0	25.0	24.5	26.5	25.5	26.5	25.0
13	15.0	14.0	19.5	19.0	23.0	21.5	25.0	24.5	26.5	25.0	25.5	24.5
14	15.5	14.0	19.0	18.5	24.5	22.0	25.5	25.0	26.5	25.0	25.0	24.0
15	16.0	15.0	19.0	18.5	24.5	24.0	25.5	24.5	26.5	25.5	24.5	24.0
16	16.0	16.0	18.5	18.0	25.0	23.5	25.0	24.0	26.5	25.0	24.5	23.5
17	16.0	15.5	19.5	18.5	25.0	24.5	25.0	24.0	25.5	25.0	24.5	23.5
18	16.0	15.5	19.0	18.5	25.0	24.0	25.5	24.5	26.0	25.0	24.5	23.0
19	17.0	16.0	20.0	18.5	26.0	24.5	26.0	25.5	26.0	25.5	23.0	21.0
20	19.0	16.5	19.0	18.5	25.5	24.0	27.0	25.0	26.5	25.5	21.5	21.0
21	19.0	18.5	20.5	19.0	25.0	24.0	28.0	25.5	27.0	25.5	23.0	21.0
22	---	---	21.0	20.0	24.5	23.5	28.5	26.0	26.0	24.5	23.5	21.5
23	---	---	22.0	21.0	24.5	24.0	28.5	26.5	26.0	24.5	24.0	22.0
24	---	---	21.5	21.0	25.0	24.0	28.5	27.0	26.0	24.5	24.0	23.0
25	---	---	21.5	20.5	25.5	24.5	28.5	27.0	27.0	24.5	25.0	23.0
26	---	---	22.0	21.5	26.0	25.5	28.0	27.0	27.0	25.0	24.0	23.5
27	---	---	22.0	21.0	26.0	25.5	28.5	27.0	27.0	25.0	25.5	23.5
28	---	---	21.0	20.5	26.0	25.0	28.0	26.5	26.5	25.0	24.5	23.5
29	---	---	21.0	20.0	25.5	24.5	28.0	26.5	26.5	25.0	24.0	24.0
30	---	---	21.5	21.0	25.0	24.5	27.0	26.0	25.0	24.0	24.0	23.5
31	---	---	21.5	20.5	---	---	26.5	26.0	25.0	24.0	---	---
MONTH	---	---	22.0	17.0	26.0	21.0	28.5	23.5	27.0	24.0	26.5	21.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03574500 PAINT ROCK RIVER NEAR WOODVILLE, ALA (LAT 34 37 27 LONG 086 18 23)												
FIELD ANALYSES												
OCT., 1972 02...	1600	--	--	--	--	--	--	--	--	--	--	--
NOV. 02...	464	--	--	--	--	--	--	--	--	--	--	--
DEC. 01...	1240	--	--	--	--	--	--	--	--	--	--	--
JAN., 1973 02...	2790	--	--	--	--	--	--	--	--	--	--	--
MAR. 01...	282	--	--	--	--	--	--	--	--	--	--	--
19...	4040	--	--	--	--	--	--	--	--	--	--	--
APR. 02...	2250	--	--	--	--	--	--	--	--	--	--	--
JUNE 01...	537	--	--	--	--	--	--	--	--	--	--	--
AUG. 31...	26	--	--	--	--	--	--	--	--	--	--	--
SEP. 21...	31	--	--	--	--	--	--	--	--	--	--	--
03574550 LITTLE PAINT CREEK NEAR WOODVILLE, ALA. (LAT 34 36 17 LONG 086 16 35)												
SEP., 1973 21...	1.6	--	--	--	--	--	--	--	140	0	--	3.2
03574560 PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE, ALA. (LAT 34 36 47 LONG 086 18 05)												
SEP., 1973 20...	33	5.3	80	20	45	5.7	1.3	1.3	153	0	15	2.4
03574570 BETHEL SPRING NEAR WOODVILLE, ALA. (LAT 34 36 47 LONG 086 21 47)												
SEP., 1973 21...	.09	--	--	--	--	--	--	--	100	0	--	1.2
03574580 TREMBLE CREEK NEAR NEW HOPE, ALA. (LAT 34 34 37 LONG 086 20 40)												
SEP., 1973 21...	.02	--	--	--	--	--	--	--	148	0	--	4.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
03574500 PAINT ROCK RIVER NEAR WOODVILLE, ALA. (LAT 34 37 27 LONG 086 18 23)--Continued												
FIELD ANALYSES												
OCT., 1972 02...	--	--	--	--	--	--	--	--	215	--	21.0	--
NOV. 02...	--	--	--	--	--	--	--	--	200	--	17.0	--
DEC. 01...	--	--	--	--	--	--	--	--	250	--	10.5	--
JAN., 1973 02...	--	--	--	--	--	--	--	--	240	--	10.5	--
MAR. 01...	--	--	--	--	--	--	--	--	--	--	11.0	--
19...	--	--	--	--	--	--	--	--	205	--	13.0	--
APR. 02...	--	--	--	--	--	--	--	--	230	--	14.5	--
JUNE 01...	--	--	--	--	--	--	--	--	205	--	19.0	--
AUG. 31...	--	--	--	--	--	--	--	--	--	--	25.5	--
SEP. 21...	--	--	--	--	--	--	--	--	--	--	23.0	--
03574550 LITTLE PAINT CREEK NEAR WOODVILLE, ALA. (LAT 34 36 17 LONG 086 16 35)--Continued												
SEP., 1973 21...	--	--	--	--	--	86	0	--	315	8.2	22.5	8.2
03574560 PAINT ROCK RIVER AT BUTLER MILL NEAR WOODVILLE, ALA. (LAT 34 36 47 LONG 086 18 05)--Continued												
SEP., 1973 20...	.2	.25	161	153	.22	140	10	.0	277	7.9	24.0	9.5
03574570 BETHEL SPRING NEAR WOODVILLE, ALA. (LAT 34 36 47 LONG 086 21 47)--Continued												
SEP., 1973 21...	--	--	--	--	--	88	6	--	188	7.7	16.0	8.6
03574580 TREMBLE CREEK NEAR NEW HOPE, ALA. (LAT 34 36 37 LONG 086 20 40)--Continued												
SEP., 1973 21...	--	--	--	--	--	130	9	--	276	8.3	19.0	3.7

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03574600 PAINT ROCK RIVER NEAR NEW HOPE, ALA. (LAT 34 30 43 LONG 086 20 23)												
SEP., 1973 20...	37	5.5	20	50	46	5.9	1.3	1.5	154	0	14	2.3
03574630 NEW HOPE SPRING AT NEW HOPE, ALA. (LAT 34 32 09 LONG 086 23 37)												
SEP., 1973 21...	1.3	--	--	--	--	--	--	--	172	0	--	3.8
03574673 LITTLE PAINT ROCK CREEK AT HEBRON, ALA. (LAT 34 29 06 LONG 086 23 11)												
SEP., 1973 21...	.09	--	--	--	--	--	--	--	152	0	--	2.2
03574700 FLINT RIVER ABOVE STEWART BRANCH NEAR FISK, ALA. (LAT 34 59 20 LONG 086 31 32)												
SEP., 1973 20...	13	6.6	120	30	10	1.8	1.1	1.9	61	0	4.5	2.3
03574710 STEWART BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 59 07 LONG 086 31 05)												
SEP., 1973 21...	.15	--	--	--	--	--	--	--	61	0	--	.8
03574715 SLATE ROCK BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 59 00 LONG 086 32 38)												
SEP., 1973 20...	.12	--	--	--	--	--	--	--	22	0	--	1.6
03574740 FLINT RIVER NEAR FISK, ALA. (LAT 34 57 41 LONG 086 33 07)												
SEP., 1973 20...	14	--	--	--	--	--	--	--	40	0	--	1.8
03574743 WALKER CREEK NEAR HAZEL GREEN, ALA. (LAT 34 58 34 LONG 086 36 34)												
SEP., 1973 20...	3.3	--	--	--	--	--	--	--	43	0	--	2.6
03574747 FOWLER CREEK NEAR HAZEL GREEN, ALA. (LAT 34 58 30 LONG 086 35 06)												
SEP., 1973 20...	.86	--	--	--	--	--	--	--	30	0	--	1.2
03574750 WEST FORK FLINT RIVER AT FISK, ALA. (LAT 34 57 29 LONG 086 36 09)												
SEP., 1973 20...	5.7	--	--	--	--	--	--	--	35	0	--	2.0
03574755 PIGRUM BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 56 21 LONG 086 31 12)												
SEP., 1973 20...	.73	--	--	--	--	--	--	--	68	0	--	1.4
03574770 FLINT RIVER NEAR NEW MARKET, ALA. (LAT 34 52 44 LONG 086 28 50)												
SEP., 1973 17...	37	6.5	90	60	13	2.1	.9	1.7	45	0	4.0	2.4

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
03574600 PAINT ROCK RIVER NEAR NEW HOPE, ALA. (LAT 34 30 43 LONG 086 20 23)--Continued												
SEP., 1973 20...	.2	.35	164	154	.22	140	13	.0	270	7.7	23.5	6.9
03574630 NEW HOPE SPRING AT NEW HOPE, ALA. (LAT 34 32 00 LONG 086 23 37)--Continued												
SEP., 1973 21...	--	--	--	--	--	190	49	--	397	8.0	16.0	2.6
03574673 LITTLE PAINT ROCK CREEK AT HEBRON, ALA. (LAT 34 29 06 LONG 086 23 11)--Continued												
SEP., 1973 21...	--	--	--	--	--	130	6	--	259	8.3	19.0	5.3
03574709 FLINT RIVER ABOVE STEWART BRANCH NEAR FISK, ALA. (LAT 34 59 07 LONG 086 31 32)--Continued												
SEP., 1973 20...	.1	.28	58	50	.07	32	0	.1	79	7.0	16.5	8.7
03574710 STEWART BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 59 07 LONG 086 31 05)--Continued												
SEP., 1973 20...	--	--	--	--	--	55	5	--	116	7.7	18.0	6.0
03574715 SLATE ROCK BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 59 00 LONG 086 32 38)--Continued												
SEP., 1973 20...	--	--	--	--	--	19	1	--	41	7.0	17.5	7.6
03574740 FLINT RIVER NEAR FISK, ALA. (LAT 34 57 41 LONG 086 33 07)--Continued												
SEP., 1973 20...	--	--	--	--	--	30	5	--	103	7.4	18.0	7.1
03574743 WALKER CREEK NEAR HAZEL GREEN, ALA. (LAT 34 58 24 LONG 086 34 24)--Continued												
SEP., 1973 20...	--	--	--	--	--	60	5	--	89	7.4	19.0	6.9
03574747 FOWLER CREEK NEAR HAZEL GREEN, ALA. (LAT 34 58 36 LONG 086 35 08)--Continued												
SEP., 1973 20...	--	--	--	--	--	16	0	--	35	7.0	18.0	8.4
03574750 WEST FORK FLINT RIVER AT FISK, ALA. (LAT 34 57 29 LONG 086 34 09)--Continued												
SEP., 1973 20...	--	--	--	--	--	37	9	--	111	7.5	18.5	7.0
03574755 PIGEON BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 56 21 LONG 086 31 12)--Continued												
SEP., 1973 20...	--	--	--	--	--	58	3	--	133	7.8	17.0	8.5
03574770 FLINT RIVER NEAR NEW MARKET, ALA. (LAT 34 52 46 LONG 086 28 50)--Continued												
SEP., 1973 17...	.0	.42	63	55	.09	41	4	.1	90	7.3	19.0	9.4

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
03574307 WATERCRESS SPRING NEAR NEW MARKET, ALA. (LAT 34 55 30 LONG 086 23 39)												
SEP., 1973 13...	13	8.3	20	0	24	6.3	.8	.3	108	0	4.7	1.6
03574790 MOUNTAIN FORK AT OLD MOUNTAIN FORK ROAD NEAR NEW MARKET, ALA. (LAT 34 55 06 LONG 086 26 05)												
SEP., 1973 20...	18	--	--	--	--	--	--	--	113	0	--	1.2
03574794 MOUNTAIN FORK ABOVE HESTER CREEK NEAR NEW MARKET, ALA. (LAT 34 56 27 LONG [illegible] 26 16)												
SEP., 1973 20...	24	--	--	--	--	--	--	--	100	0	--	1.4
03574795 HESTER CREEK NEAR PLEVNA, ALA. (LAT 34 58 40 LONG 086 27 00)												
SEP., 1973 19...	2.4	6.8	80	40	4.6	1.1	.8	.5	18	[illegible]	2.7	1.5
03574799 HESTER CREEK NEAR NEW MARKET, ALA. (LAT 34 56 27 LONG 086 26 13)												
SEP., 1973 20...	4.9	--	--	--	--	--	--	--	43	0	--	1.4
03574802 MOUNTAIN FORK NEAR NEW MARKET, ALA. (LAT 34 55 32 LONG 086 28 27)												
SEP., 1973 19...	38	7.6	30	40	23	5.2	1.1	.5	80	0	6.1	1.0
03574804 BRIER FORK FLINT RIVER AT HUCKLEBERRY BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 58 20 LONG 086 40 13)												
SEP., 1973 20...	.10	--	--	--	--	--	--	--	33	0	--	1.8
03574813 BRIER FORK FLINT RIVER NEAR HAZEL GREEN, ALA. (LAT 34 55 10 LONG 086 37 18)												
SEP., 1973 20...	1.1	--	--	--	--	--	--	--	44	0	--	2.8
03574817 COPELAND CREEK AT ELKWOOD SECTION ROAD NEAR HAZEL GREEN, ALA. (LAT 34 58 37 LONG 086 27 49)												
SEP., 1973 20...	.07	--	--	--	--	--	--	--	39	0	--	1.6
03574818 [illegible] SPRING NEAR HAZEL GREEN, ALA. (LAT 34 56 06 LONG 086 36 10)												
SEP., 1973 20...	.42	8.8	10	20	11	2.5	.8	.3	40	0	1.5	1.5
03574820 COPELAND CREEK NEAR HAZEL GREEN, ALA. (LAT 34 55 29 LONG 086 36 13)												
SEP., 1973 20...	2.5	--	--	--	--	--	--	--	46	0	--	1.2
03574823 BRIER FORK FLINT RIVER AT U.S. HIGHWAY 231 NEAR MERIDIANVILLE, ALA. (LAT 34 52 23 LONG 086 36 16)												
SEP., 1973 20...	11	--	--	--	--	--	--	--	33	0	--	1.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
[illegible] WATERCRESS SPRING NEAR NEW MARKET, ALA. (LAT 34 55 20 LONG 086 23 29)--Continued												
SEP., 1973 19...	.0	.64	99	98	.13	86	4	.0	175	7.3	15.5	8.8
03574790 MOUNTAIN FORK AT OLD MOUNTAIN FORK ROAD NEAR NEW MARKET, ALA. (LAT 34 55 06 LONG 086 26 05)--Continued												
SEP., 1973 20...	--	--	--	--	--	100	8	--	107	8.2	17.0	10.6
03574794 MOUNTAIN FORK ABOVE HESTER CREEK NEAR NEW MARKET, ALA. (LAT 34 56 37 LONG 086 26 16)--Continued												
SEP., 1973 20...	--	--	--	--	--	92	6	--	107	8.2	17.0	10.0
03574795 HESTER CREEK NEAR PLEVNA, ALA. (LAT 34 58 40 LONG 086 27 05)--Continued												
SEP., 1973 19...	.0	.22	30	28	.05	16	1	.1	41	6.9	18.0	10.4
03574799 HESTER CREEK NEAR NEW MARKET, ALA. (LAT 34 56 37 LONG 086 26 15)--Continued												
SEP., 1973 20...	--	--	--	--	--	30	3	--	63	7.5	19.0	8.6
03574802 MOUNTAIN FORK NEAR NEW MARKET, ALA. (LAT 34 52 32 LONG 086 28 27)--Continued												
SEP., 1973 19...	.0	.77	99	91	.13	79	6	.1	159	7.4	15.5	9.2
03574806 BRIER FORK FLINT RIVER ABOVE HUCKLEBERRY BRANCH NEAR HAZEL GREEN, ALA. (LAT 34 58 30 LONG 086 40 13)--Continued												
SEP., 1973 20...	--	--	--	--	--	30	3	--	61	7.6	16.0	5.9
03574811 BRIER FORK FLINT RIVER NEAR HAZEL GREEN, ALA. (LAT 34 55 10 LONG 086 37 38)--Continued												
SEP., 1973 20...	--	--	--	--	--	40	4	--	102	7.5	17.0	4.7
03574817 COPELAND CREEK AT ELKWOOD SECTION ROAD NEAR HAZEL GREEN, ALA. (LAT 34 58 37 LONG 086 37 49)--Continued												
SEP., 1973 20...	--	--	--	--	--	24	9	--	41	7.2	15.5	4.9
03574818 [illegible] SPRING NEAR HAZEL GREEN, ALA. (LAT 34 58 00 LONG 086 36 10)--Continued												
SEP., 1973 20...	.0	.98	47	50	.08	38	5	.1	76	6.9	16.0	6.8
03574820 COPELAND CREEK NEAR HAZEL GREEN, ALA. (LAT 34 55 29 LONG 086 36 15)--Continued												
SEP., 1973 20...	--	--	--	--	--	36	0	--	84	7.7	15.0	7.6
03574822 BRIER FORK FLINT RIVER AT U.S. HIGHWAY 231 NEAR MERIDIANVILLE, ALA. (LAT 34 52 33 LONG 086 34 16)--Continued												
SEP., 1973 20...	--	--	--	--	--	33	6	--	76	7.3	15.5	7.9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03574835 BRIER FORK FLINT RIVER ABOVE BEAVERDAM CREEK NEAR MERIDIANVILLE, ALA. (LAT 34 51 12 LONG 086 32 35)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 20...	9.6	7.1	140	100	9.4	1.7	1.3	1.3	36	0	2.0	2.1

03574843 TURNER SPRING NEAR TONEY, ALA. (LAT 34 53 08 LONG 086 40 49)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 20...	.47	7.9	20	30	15	2.2	1.3	.4	53	0	2.4	2.0

03574855 BEAVERDAM CREEK AT PULASKI PIKE NEAR MERIDIANVILLE, ALA. (LAT 34 51 40 LONG 086 53 34)

PESTICIDES ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
SEP., 1973 21...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

03574870 BEAVERDAM CREEK NEAR MERIDIANVILLE, ALA. (LAT 34 50 17 LONG 086 34 17)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 20...	6.3	7.9	80	50	30	3.6	1.0	1.3	105	0	3.4	2.2

03574970 BRIER FORK FLINT RIVER NEAR MERIDIANVILLE, ALA. (LAT 34 50 44 LONG 086 31 04)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 20...	24	--	--	--	--	--	--	--	83	0	--	2.0

03574998 BRIER FORK FLINT RIVER NEAR CHASE, ALA. (LAT 34 49 26 LONG 086 29 05)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 19...	35	--	--	--	--	--	--	--	78	0	--	2.0

03575015 BOILING SPRING NEAR MAYSVILLE, ALA. (LAT 34 48 18 LONG 086 28 20)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 19...	7.3	8.4	10	0	18	4.2	1.0	.6	70	0	2.0	2.1

03575028 CHASE CREEK NEAR CHASE, ALA. (LAT 34 47 06 LONG 086 29 23)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
SEP., 1973 19...	.63	--	--	--	--	--	--	--	94	0	--	3.4

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
03574835 BRIER FORK FLINT RIVER ABOVE BEAVERDAM CREEK NEAR MERIDIANVILLE, ALA. (LAT 34 51 12 LONG 086 32 35)--Continued												
SEP., 1973 20...	.0	.44	42	45	.06	30	1	.1	70	7.2	16.5	8.4
03574843 TURNER SPRING NEAR TONEY, ALA. (LAT 34 53 08 LONG 086 40 49)--Continued												
SEP., 1973 20...	.0	1.4	63	64	.09	47	3	.1	106	7.1	16.0	9.2

03574855 BEAVERDAM CREEK AT PULASKI PIKE NEAR MERIDIANVILLE, ALA. (LAT 34 51 40 LONG 086 53 34)--Continued

PESTICIDES ANALYSES--Continued

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP., 1973 21...	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00	.00

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
03574870 BEAVERDAM CREEK NEAR MERIDIANVILLE, ALA. (LAT 34 50 17 LONG 086 34 17)--Continued												
SEP., 1973 20...	.1	.90	110	105	.15	90	4	.0	186	7.4	15.0	7.6
03574970 BRIER FORK FLINT RIVER NEAR MERIDIANVILLE, ALA. (LAT 34 50 44 LONG 086 31 04)--Continued												
SEP., 1973 20...	--	--	--	--	--	69	1	--	140	7.7	16.0	8.6
03574990 BRIER FORK FLINT RIVER NEAR CHASE, ALA. (LAT 34 49 24 LONG 086 29 05)--Continued												
SEP., 1973 19...	--	--	--	--	--	65	1	--	134	7.6	19.0	10.6
03575015 BOILING SPRING NEAR MAYSVILLE, ALA. (LAT 34 48 18 LONG 086 28 20)--Continued												
SEP., 1973 19...	.0	1.4	86	77	.12	62	5	.1	131	7.1	15.5	9.5
03575028 CHASE CREEK NEAR CHASE, ALA. (LAT 34 47 06 LONG 086 29 23)--Continued												
SEP., 1973 19...	--	--	--	--	--	150	73	--	308	7.8	16.5	10.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
03575040 FLINT RIVER NEAR MOUNT CARMEL, ALA. (LAT 34 47 13 LONG 086 28 51)												
NOV., 1972 02...	295	7.3	240	25	20	3.2	1.4	1.4	--	--	5.4	3.2
DEC. 06...	950	5.0	60	30	15	2.6	2.2	1.9	--	--	4.4	2.8
SEP., 1973 28...	120	7.3	40	50	20	4.0	1.8	.7	73	0	3.8	1.9
FIELD ANALYSES												
NOV., 1972 02...	--	--	--	--	--	--	--	--	66	0	--	--
DEC. 06...	--	--	--	--	--	--	--	--	50	0	--	--
SEP., 1973 28...	--	--	--	--	--	--	--	--	--	--	--	--
03575100 FLINT RIVER AT BROWNSBORO, ALA. (LAT 34 44 27 LONG 086 26 29)												
SEP., 1973 19...	141	--	--	--	--	--	--	--	68	0	--	2.2
03575110 DUG HILL SPRING NEAR BROWNSBORO, ALA. (LAT 34 44 58 LONG 086 28 39)												
SEP., 1973 19...	.21	--	--	--	--	--	--	--	100	0	--	3.0
03575120 FLINT RIVER WEST OF GURLEY, ALA. (LAT 34 41 47 LONG 086 25 20)												
SEP., 1973 19...	152	7.1	80	40	19	3.6	1.2	1.2	70	0	4.0	2.3
03575140 HURRICANE CREEK NEAR NEW MARKET, ALA. (LAT 34 52 44 LONG 086 23 14)												
SEP., 1973 19...	.10	7.2	30	50	68	7.2	1.6	.6	218	0	13	2.7
03575150 HURRICANE CREEK ABOVE MOLDER BRANCH NEAR MAYSVILLE, ALA. (LAT 34 48 07 LONG 086 24 12)												
SEP., 1973 19...	1.5	--	--	--	--	--	--	--	162	0	--	2.6
03575154 MURPHY SPRING NEAR MAYSVILLE, ALA. (LAT 34 47 57 LONG 086 22 40)												
SEP., 1973 19...	.27	--	--	--	--	--	--	--	215	0	--	2.0
03575157 HURRICANE CREEK NEAR MAYSVILLE, ALA. (LAT 34 45 19 LONG 086 23 32)												
SEP., 1973 19...	1.4	--	--	--	--	--	--	--	160	0	--	2.8
03575175 MEADOW SPRING NEAR GURLEY, ALA. (LAT 34 44 18 LONG 086 22 34)												
SEP., 1973 19...	.47	7.4	10	0	63	6.6	1.4	.6	208	0	12	2.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
03575040 FLINT RIVER NEAR MOUNT CARMEL, ALA. (LAT 34 47 13 LONG 086 28 51)--Continued												
NOV., 1972 02...	.1	.6	--	74	78	63	9	--	--	--	--	--
DEC. 06...	.3	.02	--	--	60	48	5	--	--	--	--	--
SEP., 1973 28...	.1	--	.80	79	79	66	7	135	7.2	--	--	.8
FIELD ANALYSES												
NOV., 1972 02...	--	--	--	--	--	--	--	134	6.7	17.0	8.0	--
DEC. 06...	--	--	--	--	--	--	--	104	6.9	14.5	9.6	--
SEP., 1973 28...	--	--	--	--	--	--	--	--	--	21.0	8.7	--
03575100 FLINT RIVER AT BROWNSBORO, ALA. (LAT 34 44 27 LONG 086 26 29)--Continued												
SEP., 1973 19...	--	--	--	--	--	65	10	133	7.7	19.0	10.2	--
03575110 DUG HILL SPRING NEAR BROWNSBORO, ALA. (LAT 34 44 58 LONG 086 28 39)--Continued												
SEP., 1973 19...	--	--	--	--	--	200	120	417	7.8	16.0	5.0	--
03575120 FLINT RIVER WEST OF GURLEY, ALA. (LAT 34 41 47 LONG 086 25 20)--Continued												
SEP., 1973 19...	.1	--	.71	83	76	62	5	132	7.4	18.5	6.0	--
03575140 HURRICANE CREEK NEAR NEW MARKET, ALA. (LAT 34 52 44 LONG 086 23 14)--Continued												
SEP., 1973 19...	.1	--	.97	222	212	200	21	387	7.9	15.0	5.7	--
03575150 HURRICANE CREEK ABOVE MOLDER BRANCH NEAR MAYSVILLE, ALA. (LAT 34 48 07 LONG 086 26 12)--Continued												
SEP., 1973 19...	--	--	--	--	--	140	7	290	8.1	18.0	7.2	--
03575154 MURPHY SPRING NEAR MAYSVILLE, ALA. (LAT 34 47 57 LONG 086 22 40)--Continued												
SEP., 1973 19...	--	--	--	--	--	200	24	378	7.1	17.0	6.8	--
03575157 HURRICANE CREEK NEAR MAYSVILLE, ALA. (LAT 34 45 19 LONG 086 23 32)--Continued												
SEP., 1973 19...	--	--	--	--	--	140	9	219	8.2	19.5	5.6	--
03575175 BEASON SPRING NEAR GURLEY, ALA. (LAT 34 44 18 LONG 086 22 34)--Continued												
SEP., 1973 19...	.1	--	.35	197	198	180	14	360	7.5	15.0	1.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03575200 HURRICANE CREEK NEAR GURLEY, ALA. (LAT 34 42 33 LONG 086 23 59)

PESTICIDES ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
SEP., 1973 21...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
03575210 HURRICANE CREEK WEST OF GURLEY, ALA. (LAT 34 41 53 LONG 086 24 55)												
SEP., 1973 18...	5.2	7.1	40	70	48	6.2	1.3	1.6	165	0	7.0	2.6
03575252 ESSLINGER SPRING NEAR OWENS CROSS ROADS, ALA. (LAT 34 30 52 LONG 086 26 05)												
SEP., 1973 19...	.12	--	--	--	--	--	--	--	178	0	--	4.0
03575280 FLINT RIVER NEAR BIG COVE, ALA. (LAT 34 38 17 LONG 086 28 00)												
SEP., 1973 18...	157	7.0	70	40	19	3.3	.9	2.2	68	0	4.3	2.4
03575330 FLINT RIVER AT OWENS CROSS ROADS, ALA. (LAT 34 35 30 LONG 086 28 06)												
SEP., 1973 19...	156	--	--	--	--	--	--	--	73	0	--	1.0
03575400 FLINT RIVER NEAR OWENS CROSS ROADS, ALA. (LAT 34 32 10 LONG 086 29 20)												
SEP., 1973 18...	156	7.1	70	20	21	3.0	1.0	1.1	67	0	3.0	2.4
03575480 TENNESSEE RIVER AT HUNTSVILLE PUMP STATION, ALA. (LAT 34 34 06 LONG 086 33 16)												
DEC., 1972 06...	61400	5.7	30	10	21	5.0	6.4	2.0	--	--	16	7.1
MAR., 1973 27...	110000	4.7	30	12	18	3.3	2.6	1.5	24	10	9.4	3.2
JULY 11...	41900	5.5	0	20	19	4.4	4.9	1.4	--	--	12	6.0
FIELD ANALYSES												
DEC., 1972 06...	--	--	--	--	--	--	--	--	74	0	--	--
MAR., 1973 27...	--	--	--	--	--	--	--	--	--	--	--	--
JULY 11...	--	--	--	--	--	--	--	--	64	0	--	--
03575692 ESSLINGER SPRING AT HUNTSVILLE, ALA. (LAT 34 38 33 LONG 086 32 34)												
SEP., 1973 19...	.63	--	--	--	--	--	--	--	106	0	--	9.4
03575730 ALDRIDGE CREEK AT FARLEY, ALA. (LAT 34 35 42 LONG 086 32 45)												
SEP., 1973 19...	1.6	--	--	--	--	--	--	--	103	0	--	7.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03575200 HURRICANE CREEK NEAR GURLEY, ALA. (LAT 34 42 33 LONG 086 23 59)--Continued

PESTICIDES ANALYSES--Continued

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP., 1973											
21...	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00	.00

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
03575210 HURRICANE CREEK WEST OF GURLEY, ALA. (LAT 34 41 53 LONG 086 26 55)--Continued												
SEP., 1973												
18...	.1	.64	160	159	.22	150	10	.0	284	7.6	21.5	7.1
03575252 ESSLINGER SPRING NEAR OWENS CROSS ROADS, ALA. (LAT 34 38 52 LONG 086 26 05)--Continued												
SEP., 1973												
19...	--	--	--	--	--	180	34	--	325	7.6	16.0	6.4
03575280 FLINT RIVER NEAR BIG COVE, ALA. (LAT 34 38 17 LONG 086 28 08)--Continued												
SEP., 1973												
18...	.1	.59	83	75	.11	61	5	.1	128	7.4	21.5	7.5
03575330 FLINT RIVER AT OWENS CROSS ROADS, ALA. (LAT 34 35 30 LONG 086 28 06)--Continued												
SEP., 1973												
19...	--	--	--	--	--	44	0	--	136	7.8	19.5	9.6
03575400 FLINT RIVER NEAR OWENS CROSS ROADS, ALA. (LAT 34 32 10 LONG 086 29 28)--Continued												
SEP., 1973												
18...	.0	.61	71	75	.10	65	10	.1	128	7.9	22.0	7.4
03575480 TENNESSEE RIVER AT HUNTSVILLE PUMP STATION, ALA. (LAT 34 34 06 LONG 086 33 16)--Continued												
DEC., 1972												
06...	.3	.40	--	101	.14	73	13	.3	--	--	--	--
MAR., 1973												
27...	.2	.30	--	74	.10	59	10	.1	--	9.4	--	--
JULY												
11...	.1	.20	90	87	.12	66	14	.3	151	--	--	--
FIELD ANALYSES--Continued												
DEC., 1972												
06...	--	--	--	--	--	--	--	--	180	7.6	11.0	10.5
MAR., 1973												
27...	--	--	--	--	--	--	--	--	130	--	13.0	11.6
JULY												
11...	--	--	--	--	--	--	--	--	--	7.4	27.0	6.3
03575692 ESSLINGER SPRING AT HUNTSVILLE, ALA. (LAT 34 38 33 LONG 086 32 36)--Continued												
SEP., 1973												
19...	--	--	--	--	--	190	100	--	495	7.7	15.5	5.1
03575730 ALDRIDGE CREEK AT FARLEY, ALA. (LAT 34 35 42 LONG 086 32 45)--Continued												
SEP., 1973												
19...	--	--	--	--	--	170	86	--	310	7.9	14.5	8.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03575734 ALDRIDGE CREEK NEAR WHITESBURG, ALA. (LAT 34 35 01 LONG 086 33 22)												
SEP., 1973 28...	4.6	9.6	50	80	38	5.5	51	8.1	120	0	42	36
03575760 KELLY SPRING NEAR HARVEST, ALA. (LAT 34 48 54 LONG 086 42 44)												
SEP., 1973 18...	4.0	8.8	10	0	27	4.2	1.1	.5	94	0	2.5	1.9
03575780 INDIAN CREEK NEAR MONROVIA, ALA. (LAT 34 47 12 LONG 086 42 45)												
SEP., 1973 18...	4.5	--	--	--	--	--	--	--	97	0	--	2.0
03575788 DUPREE BRANCH NEAR HARVEST, ALA. (LAT 34 46 38 LONG 086 42 51)												
SEP., 1973 18...	2.7	--	--	--	--	--	--	--	88	0	--	2.2
03575808 DRY CREEK NEAR MADISON, ALA. (LAT 34 45 25 LONG 086 41 09)												
SEP., 1973 18...	.11	--	--	--	--	--	--	--	62	0	--	3.4
03575810 INDIAN CREEK AT U.S. HIGHWAY 72 NEAR HUNTSVILLE, ALA. (LAT 34 45 00 LONG 086 41 51)												
SEP., 1973 21...	6.5	--	--	--	--	--	--	--	95	0	--	2.2

PESTICIDES ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
SEP., 1973 21...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
03575736 ALDRIDGE CREEK NEAR WHITESBURG, ALA. (LAT 34 35 01 LONG 086 33 22)--Continued												
SEP., 1973 28...	1.2	8.8	300	290	120	19	2.0	498	6.8	24.5	4.0	6.1
03575760 KELLY SPRING NEAR HARVEST, ALA. (LAT 34 48 56 LONG 086 42 44)--Continued												
SEP., 1973 18...	.1	1.2	93	98	85	8	.1	168	7.5	15.0	11.4	--
03575780 INDIAN CREEK NEAR MONROVIA, ALA. (LAT 34 47 12 LONG 086 42 43)--Continued												
SEP., 1973 18...	--	--	--	--	62	0	--	171	7.9	20.5	8.0	--
03575788 DUPREE BRANCH NEAR HARVEST, ALA. (LAT 34 46 38 LONG 086 42 51)--Continued												
SEP., 1973 18...	--	--	--	--	72	7	--	151	8.2	17.5	9.0	--
03575808 DRY CREEK NEAR MADISON, ALA. (LAT 34 43 25 LONG 086 41 09)--Continued												
SEP., 1973 18...	--	--	--	--	51	0	--	110	7.7	21.0	10.2	--
03575810 INDIAN CREEK AT U.S. HIGHWAY 72 NEAR HUNTSVILLE, ALA. (LAT 34 45 00 LONG 086 41 51)--Continued												
SEP., 1973 21...	--	--	--	--	77	0	--	168	7.8	19.5	9.7	--

PESTICIDES ANALYSES--Continued

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP., 1973 21...	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03575830 INDIAN CREEK NEAR MADISON, ALA. (LAT 34 41 50 LONG 086 42 00)												
AUG., 1973 18...	7.1	--	--	--	--	--	--	--	83	0	--	2.8
FIELD ANALYSES												
NOV., 1972 10...	15	--	--	--	--	--	--	--	--	--	--	--
DEC. 09...	357	--	--	--	--	--	--	--	--	--	--	--
FEB., 1973 05...	146	--	--	--	--	--	--	--	--	--	--	--
14...	1050	--	--	--	--	--	--	--	--	--	--	--
MAR. 05...	100	--	--	--	--	--	--	--	--	--	--	--
APR. 16...	80	--	--	--	--	--	--	--	--	--	--	--
MAY 14...	50	--	--	--	--	--	--	--	--	--	--	--
JUNE 04...	30	--	--	--	--	--	--	--	--	--	--	--
AUG. 07...	10	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	6.7	--	--	--	--	--	--	--	--	--	--	--
03575850 INDIAN CREEK NEAR HUNTSVILLE, ALA. (LAT 34 38 43 LONG 086 41 09)												
SEP., 1973 18...	15	--	--	--	--	--	--	--	106	0	--	3.4
03575851 INDIAN CREEK 700 FEET DOWNSTREAM FROM MARTIN ROAD NEAR HUNTSVILLE, ALA. (LAT 34 38 37 LONG 086 41 12)												
SEP., 1973 27...	16	6.8	40	50	31	4.4	6.4	2.0	106	0	9.1	6.9
03575860 FAGAN CREEK AT HUNTSVILLE, ALA. (LAT 34 43 29 LONG 086 35 16)												
SEP., 1973 18...	.10	--	--	--	--	--	--	--	157	0	--	8.4
03575870 DALLAS BRANCH AT HUNTSVILLE, ALA. (LAT 34 44 32 LONG 086 35 20)												
SEP., 1973 18...	.05	--	--	--	--	--	--	--	194	0	--	5.6
03575880 PINHOOK CREEK AT HOLMES AVENUE AT HUNTSVILLE, ALA. (LAT 34 43 48 LONG 086 35 40)												
SEP., 1973 18...	3.1	--	--	--	--	--	--	--	99	0	--	3.2
03575935 BROGLAN BRANCH AT HUNTSVILLE, ALA. (LAT 34 43 11 LONG 086 35 43)												
SEP., 1973 18...	.12	--	--	--	--	--	--	--	112	0	--	65

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
03575830 INDIAN CREEK NEAR MADISON, ALA. (LAT 34 41 30 LONG 086 42 00)--Continued												
AUG., 1973 18...	--	--	--	--	72	4	--	--	7.8	--	--	--
FIELD ANALYSES--Continued												
NOV., 1972 10...	--	--	--	--	--	--	--	140	--	13.5	--	--
DEC. 09...	--	--	--	--	--	--	--	104	--	13.0	--	--
FEB., 1973 05...	--	--	--	--	--	--	--	--	--	10.0	--	--
14...	--	--	--	--	--	--	--	65	--	10.0	--	--
MAR. 05...	--	--	--	--	--	--	--	133	--	14.5	--	--
APR. 16...	--	--	--	--	-	--	--	140	--	16.0	--	--
MAY 14...	--	--	--	--	--	--	--	140	--	--	--	--
JUNE 04...	--	--	--	--	--	--	--	155	--	22.0	--	--
AUG. 07...	--	--	--	--	--	--	--	--	--	24.0	--	--
18...	--	--	--	--	--	--	--	162	--	21.5	6.5	--
SEP. 11...	--	--	--	--	--	--	--	--	--	23.5	--	--
03575850 INDIAN CREEK NEAR HUNTSVILLE, ALA. (LAT 34 38 43 LONG 086 41 09)--Continued												
SEP., 1973 18...	--	--	--	--	--	--	--	191	--	20.0	8.2	--
03575851 INDIAN CREEK 700 FEET DOWNSTREAM FROM MARTIN ROAD NEAR HUNTSVILLE, ALA. (LAT 34 38 37 LONG 086 41 12)--Continued												
SEP., 1973 27...	.3	1.3	124	125	96	9	.3	224	7.3	23.0	8.3	1.6
03575868 FAGAN CREEK AT HUNTSVILLE, ALA. (LAT 34 43 29 LONG 086 35 16)--Continued												
SEP., 1973 18...	--	--	--	--	180	52	--	398	8.1	18.0	8.7	--
03575878 DALLAS BRANCH AT HUNTSVILLE, ALA. (LAT 34 44 32 LONG 086 35 20)--Continued												
SEP., 1973 18...	--	--	--	--	160	1	--	334	6.7	20.5	4.7	--
03575888 PINHOOK CREEK AT HOLMES AVENUE AT HUNTSVILLE, ALA. (LAT 34 43 48 LONG 086 35 40)--Continued												
SEP., 1973 18...	--	--	--	--	86	5	--	172	7.9	21.5	8.2	--
03575935 BROGLAN BRANCH AT HUNTSVILLE, ALA. (LAT 34 43 11 LONG 086 35 43)--Continued												
SEP., 1973 18...	--	--	--	--	100	8	--	421	8.0	21.5	9.4	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03575953 UNNAMED TRIBUTARY TO HUNTSVILLE SPRING BRANCH ON SOUTHWEST EDGE OF HUNTSVILLE LANDFILL AT HUNTSVILLE, ALA. (LAT 34 41 00 LONG 086 35 56)

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE, 1973									
06...	1.9	210	290	25	5.3	21	1.7	132	0

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
JUNE, 1973								
06...	.21	84	0	1.0	300	7.3	26.0	13

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
03575980 MCDONNELL CREEK AT PATTON ROAD NEAR HUNTSVILLE, ALA. (LAT 34 41 33 LONG 086 37 39)												
SEP., 1973												
18...	.18	--	--	--	--	--	--	--	111	0	--	6.8
03575996 MCDONNELL CREEK AT MARTIN ROAD AT HUNTSVILLE, ALA. (LAT 34 39 12 LONG 086 36 46)												
SEP., 1973												
18...	6.6	--	--	--	--	--	--	--	101	0	--	17
03576000 HUNTSVILLE SPRING BRANCH AT PATTON ROAD NEAR HUNTSVILLE, ALA. (LAT 34 37 32 LONG 086 37 46)												
SEP., 1973												
18...	41	--	--	--	--	--	--	--	100	0	--	27
27...	39	9.6	10	230	40	5.2	37	5.5	133	0	27	32
03576020 HUNTSVILLE SPRING BRANCH AT DODD ROAD NEAR HUNTSVILLE, ALA. (LAT 34 37 08 LONG 086 39 36)												
SEP., 1973												
21...	38	8.8	70	240	42	5.5	30	4.9	122	0	21	36
03576062 BETTS SPRING NEAR MADISON, ALA. (LAT 34 43 34 LONG 086 45 47)												
SEP., 1973												
18...	1.2	8.7	110	150	13	3.2	1.0	.5	53	0	1.8	1.5
03576070 MILL CREEK AT MADISON, ALA. (LAT 34 41 32 LONG 086 46 05)												
SEP., 1973												
18...	1.1	--	--	--	--	--	--	--	62	0	--	1.2
03576082 BRADFORD CREEK AT JAMES RECORD ROAD NEAR MADISON, ALA. (LAT 34 39 05 LONG 086 45 10)												
SEP., 1973												
18...	.75	--	--	--	--	--	--	--	64	0	--	2.8
03576090 BETTS SPRING BRANCH NEAR MADISON, ALA. (LAT 34 38 53 LONG 086 44 32)												
SEP., 1973												
18...	4.4	--	--	--	--	--	--	--	118	0	--	4.4
03576100 HUTLER BRANCH NEAR TRIANA, ALA. (LAT 34 37 18 LONG 086 43 23)												
SEP., 1973												
18...	.79	--	--	--	--	--	--	--	119	0	--	3.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03575953 UNNAMED TRIBUTARY TO HUNTSVILLE SPRING BRANCH IN SOUTHWEST SIDE OF HUNTSVILLE LANDFILL AT HUNTSVILLE, ALA. (LAT 34 41 00 LONG 086 35 30)--Continued

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
JUNE, 1973									
06...	13	21	.2	.3	.20	.12	.50	153	155

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JUNE, 1973									
06...	4	<1	<10	<1	10	1	<.5	<1	30

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
03575980 MCDONALD CREEK AT PATTON ROAD NEAR HUNTSVILLE, ALA. (LAT 34 41 33 LONG 086 37 20)--Continued												
SEP., 1973												
10...	--	--	--	--	94	3	--	191	8.0	21.0	9.0	--
03575996 MCDONALD CREEK AT MARTIN ROAD AT HUNTSVILLE, ALA. (LAT 34 39 12 LONG 086 36 46)--Continued												
SEP., 1973												
10...	--	--	--	--	110	27	--	252	7.7	20.0	10.6	--
03576000 HUNTSVILLE SPRING BRANCH AT PATTON ROAD NEAR HUNTSVILLE, ALA. (LAT 34 37 32 LONG 086 37 46)--Continued												
SEP., 1973												
10...	--	--	--	--	110	22	--	420	7.9	23.0	2.2	--
27...	.8	7.8	271	257	120	12	1.5	459	6.8	24.0	.6	1.6
03576030 HUNTSVILLE SPRING BRANCH AT DODD ROAD NEAR HUNTSVILLE, ALA. (LAT 34 37 00 LONG 086 39 36)--Continued												
SEP., 1973												
21...	.7	8.3	252	236	130	27	1.2	407	6.9	20.0	2.8	--
03576062 BETTS SPRING NEAR MADISON, ALA. (LAT 34 43 36 LONG 086 43 47)--Continued												
SEP., 1973												
10...	.0	.59	54	50	46	2	.1	95	7.4	17.0	7.4	--
03576070 MILL CREEK AT MADISON, ALA. (LAT 34 41 32 LONG 086 46 05)--Continued												
SEP., 1973												
10...	--	--	--	--	50	0	--	99	7.6	19.5	6.7	--
03576081 BRADFORD CREEK AT JAMES RECORD ROAD NEAR MADISON, ALA. (LAT 34 39 05 LONG 086 45 10)--Continued												
SEP., 1973												
10...	--	--	--	--	51	0	--	108	7.7	21.0	9.8	--
03576090 BETTS SPRING BRANCH NEAR MADISON, ALA. (LAT 34 38 53 LONG 086 44 33)--Continued												
SEP., 1973												
10...	--	--	--	--	94	1	--	183	8.0	20.0	3.9	--
03576100 MILLER BRANCH NEAR TRIANA, ALA. (LAT 34 37 18 LONG 086 45 22)--Continued												
SEP., 1973												
10...	--	--	--	--	110	13	--	228	8.0	16.0	9.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03576110 BARREN FORK CREEK NEAR TRIANA, ALA. (LAT 34 36 12 LONG 086 46 06)												
SEP., 1973 21...	7.2	7.1	60	110	22	3.4	3.1	1.0	64	0	3.0	4.0
03576148 COTACO CREEK AT FLORETTE, ALA. (LAT 34 26 40 LONG 086 41 35)												
OCT., 1972 10...	5.1	--	--	--	--	--	--	--	86	0	--	5.8
NOV. 01...	17	--	--	--	--	--	--	--	102	0	--	5.2
FIELD ANALYSES												
FEB., 1973 14...	1720	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	210	--	--	--	--	--	--	--	--	--	--	--
JUN. 01...	322	--	--	--	--	--	--	--	--	--	--	--
29...	33	--	--	--	--	--	--	--	--	--	--	--
AUG. 01...	5.9	--	--	--	--	--	--	--	--	--	--	--
SEP. 07...	1.3	--	--	--	--	--	--	--	--	--	--	--
03576201 LIMESTONE CREEK NEAR [illegible], ALA. (LAT 34 57 18 LONG 086 43 30)												
SEP., 1973 18...	1.0	--	--	--	--	--	--	--	1.	0	--	2.0
03576206 LIMESTONE CREEK AT TONEY, ALA. (LAT 34 54 11 LONG 086 43 51)												
SEP., 1973 18...	3.5	--	--	--	--	--	--	--	61	0	--	3.8
03576208 LIMESTONE CREEK NEAR TONEY, ALA. (LAT 34 53 12 LONG 086 43 52)												
SEP., 1973 17...	7.6	--	--	--	--	--	--	--	46	0	--	3.0
03576220 TYRONE CREEK NEAR BETHEL, ALA. (LAT 34 56 00 LONG 086 47 12)												
SEP., 1973 17...	5.2	--	--	--	--	--	--	--	33	0	--	3.8
03576225 LITTLE LIMESTONE CREEK BELOW TYRONE CREEK NEAR TONEY, ALA. (LAT 34 54 13 LONG 086 47 20)												
SEP., 1973 17...	2.1	--	--	--	--	--	--	--	36	0	--	3.4
03576229 LIMESTONE CREEK AT MADISON-LIMESTONE COUNTY LINE NEAR TONEY, ALA. (LAT 34 53 00 LONG 086 47 00)												
SEP., 1973 17...	10	5.9	90	120	11	1.6	1.5	2.0	36	0	3.7	2.9
03576235 LESLIE BRANCH NEAR HARVEST, ALA. (LAT 34 51 14 LONG 086 47 06)												
SEP., 1973 17...	2.5	--	--	--	--	--	--	--	61	0	--	3.4
03576245 [illegible] BRANCH AT CAPSHAW, ALA. (LAT 34 46 23 LONG 086 47 43)												
SEP., 1973 17...	3.4	--	--	--	--	--	--	--	38	0	--	1.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
03576110 [illegible] FORK CREEK NEAR [illegible], ALA. (LAT 34 36 52 LONG 086 56 00)--Continued												
SEP., 1973												
21...	.1	1.2	97	91	.13	69	0	.2	154	7.3	20.0	12.4
03576148 COTACO CREEK AT FLORETTE, ALA. (LAT 34 26 49 LONG 086 41 19)--Continued												
OCT., 1972												
10...	--	--	--	--	--	68	0	--	175	7.0	16.5	--
NOV.												
01...	--	--	--	--	--	92	9	--	220	7.1	17.5	--
FIELD ANALYSES--Continued												
FEB., 1973												
14...	--	--	--	--	--	--	--	--	--	--	12.0	--
APR.												
19...	--	--	--	--	--	--	--	--	180	--	16.0	--
JUNE												
01...	--	--	--	--	--	--	--	--	--	--	18.0	--
29...	--	--	--	--	--	--	--	--	140	--	24.5	--
AUG.												
01...	--	--	--	--	--	--	--	--	195	--	27.0	--
SEP.												
07...	--	--	--	--	--	--	--	--	160	--	24.5	--
03576201 LIMESTONE CREEK NEAR [illegible], ALA. (LAT 34 57 10 LONG 086 43 10)--Continued												
SEP., 1973												
18...	--	--	--	--	--	26	1	--	61	7.3	18.0	7.6
03576206 LIMESTONE CREEK AT TONEY, ALA. (LAT 34 54 51 LONG 086 43 51)--Continued												
SEP., 1973												
18...	--	--	--	--	--	33	0	--	71	7.2	18.5	9.6
03576208 LIMESTONE CREEK NEAR TONEY, ALA. (LAT 34 52 12 LONG 086 45 52)--Continued												
SEP., 1973												
17...	--	--	--	--	--	36	0	--	88	7.3	22.0	9.3
03576220 TYRONE CREEK NEAR BETHEL, ALA. (LAT 34 56 00 LONG 086 47 12)--Continued												
SEP., 1973												
17...	--	--	--	--	--	45	10	--	95	6.7	25.0	8.7
03576225 LITTLE LIMESTONE CREEK BELOW TYRONE CREEK NEAR TONEY, ALA. (LAT 34 54 13 LONG 086 47 20)--Continued												
SEP., 1973												
17...	--	--	--	--	--	32	3	--	84	7.2	21.5	9.8
03576229 LIMESTONE CREEK AT MADISON-LIMESTONE COUNTY LINE NEAR TONEY, ALA. (LAT 34 53 03 LONG 086 47 00)--Continued												
SEP., 1973												
17...	.1	.41	61	48	.08	34	5	.1	79	7.2	21.0	8.2
03576235 LESLIE BRANCH NEAR HARVEST, ALA. (LAT 34 51 16 LONG 086 47 06)--Continued												
SEP., 1973												
17...	--	--	--	--	--	34	1	--	75	7.2	21.5	11.6
03576263 [illegible] BRANCH AT CAPSHAW, ALA. (LAT 34 46 23 LONG 086 47 43)--Continued												
SEP., 1973												
17...	--	--	--	--	--	33	2	--	74	7.3	19.0	10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
03576247 KNOX CREEK AT CAPSHAW, ALA. (LAT 34 45 34 LONG 086 47 09)										
SEP., 1973										
17...	.93	67	0	2.2	34	0	86	7.7	23.5	9.6
03585305 RIDGEWAY MILL SPRING AT GOOD SPRINGS, ALA. (LAT 34 56 07 LONG 087 11 52)										
FIELD ANALYSES										
OCT., 1972										
10...	.94	--	--	--	--	--	90	--	15.5	--
31...	1.0	--	--	--	--	--	100	--	15.0	--
DEC.										
18...	1.4	--	--	--	--	--	95	--	14.5	--
03586500 BIG NANCE CREEK AT COURTLAND, ALA. (LAT 34 40 12 LONG 087 19 02)										
FIELD ANALYSES										
OCT., 1972										
06...	119	--	--	--	--	--	161	--	16.0	--
31...	102	--	--	--	--	--	195	--	15.0	--
MAR., 1973										
05...	411	--	--	--	--	--	--	--	15.0	--
APR.										
24...	1500	--	--	--	--	--	155	--	19.0	--
JUNE										
26...	113	--	--	--	--	--	200	--	22.5	--
AUG.										
02...	37	--	--	--	--	--	210	--	21.5	--
SEP.										
06...	6.6	--	--	--	--	--	270	--	21.5	--
03592000 BEAR CREEK NEAR RED BAY, ALA. (LAT 34 26 28 LONG 088 06 56)										
OCT., 1972										
10...	50	8	0	4.4	44	38	--	6.5	--	--
FIELD ANALYSES										
OCT., 1972										
10...	--	--	--	--	--	--	88	--	19.0	--
DEC.										
20...	1570	--	--	--	--	--	38	--	9.0	--
FEB., 1973										
14...	1950	--	--	--	--	--	36	--	7.0	--
APR.										
30...	1520	--	--	--	--	--	--	--	16.5	--
JULY										
03...	93	--	--	--	--	--	--	--	24.5	--
31...	76	--	--	--	--	--	55	--	25.5	--
SEP.										
05...	140	--	--	--	--	--	54	--	25.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

03592200 CEDAR CREEK NEAR PLEASANT SITE, ALA. (LAT 34 32 56 LONG 088 01 09)

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1972									
10...	63	168	0	19	88	17	--	8.3	--

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1972									
10...	--	--	--	--	--	--	330	--	17.0
DEC.									
20...	673	--	--	--	--	--	245	--	11.0
FEB., 1973									
14...	4620	--	--	--	--	--	--	--	8.0
MAR.									
13...	654	--	--	--	--	--	220	--	15.0
APR.									
30...	535	--	--	--	--	--	--	--	17.0
MAY									
22...	192	--	--	--	--	--	--	--	18.0
JULY									
03...	114	--	--	--	--	--	--	--	24.5
31...	55	--	--	--	--	--	270	--	26.5
SEP.									
05...	29	--	--	--	--	--	260	--	25.5

03592300 LITTLE BEAR CREEK NEAR HALLTOWN, ALA. (LAT 34 29 19 LONG 088 02 07)

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT., 1972									
10...	18	--	--	--	--	--	160	--	17.5
NOV.									
01...	38	--	--	--	--	--	180	--	18.0
DEC.									
29...	105	--	--	--	--	--	120	--	8.5
FEB., 1973									
13...	238	--	--	--	--	--	116	--	9.0
14...	2490	--	--	--	--	--	52	--	7.5
JULY									
31...	45	--	--	--	--	--	140	--	25.5
SEP.									
05...	18	--	--	--	--	--	141	--	23.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
343822086411001 WILLIAMS SPRING NEAR HUNTSVILLE, ALA. (LAT 34 38 22 LONG 086 41 10)												
SEP., 1973 13...	--	7.4	20	0	36	4.2	6.1	1.0	126	0	8.9	6.0
343937086273001 ROBINSON MILL CREEK NEAR OWENS CROSSROADS, ALA. (LAT 34 39 37 LONG 086 27 30)												
SEP., 1973 19...	--	--	--	--	--	--	--	--	151	0	--	5.4
344053086252001 GRAYSON SPRING NEAR GURLEY, ALA. (LAT 34 40 53 LONG 086 25 20)												
SEP., 1973 19...	.01	--	--	--	--	--	--	--	133	0	--	2.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
343822086411001 WILLIAMS SPRING NEAR HUNTSVILLE, ALA. (LAT 34 38 22 LONG 086 41 10)--Continued												
SEP., 1973 18...	.1	.99	138	136	.19	119	4	.3	245	7.4	20.0	--
343937086273001 ROBINSON MILL CREEK NEAR OWENS CROSS ROADS, ALA. (LAT 34 39 37 LONG 086 27 30)--Continued												
SEP., 1973 19...	--	--	--	--	--	150	22	--	270	7.8	20.5	6.5
344053086252001 GRAYSON SPRING NEAR GURLEY, ALA. (LAT 34 40 53 LONG 086 25 20)--Continued												
SEP., 1973 19...	--	--	--	--	--	160	56	--	38.5	8.0	18.5	6.0

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